MIT's Oldest and
Largest Newspaper

thetech.com

The Tech
Established 1881

**WEATHER**
**THU:** 47°F | 45°F
Showers
**FRI:** 56°F | 47°F
Party cloudy
**SAT:** 61°F | 49°F
Cloudy

Volume 136, Number 15
Thursday, May 5, 2016

# New House could face demolition or full renovation

## *Discussions will take place over the next academic year to determine the dorm's fate*

*LENNY MARTINEZ—THE TECH*

**By Karleigh Moore, William Navarre, and Katherine Nazemi**
*EDITORS*

New House will need to be "thoroughly repaired or demolished," DormCon President Kate Farris '17 said in an email.

Farris gathered from conversations between DormCon leadership and Chancellor Cynthia Barnhart PhD '88 that discussions to weigh the two options will take place over the next academic year, and that the plans will be enacted beginning the following year.

Surveyors have begun to investigate how much each of the options will cost, Yonadav Shavit '16, a former previous DormCon president, said.

If the dorm is destroyed, a new one will be built in its place, Farris's email said.

Farris said that holding the discussions next year, rather than immediately, is intended to show consideration for students who are currently working on projects and preparing for finals week.

The news comes a few months after New House underwent about $10 million in repairs and renovations after several pipe bursts caused damage to the building.

If the dorm is shuttered, its 287 residents would likely be displaced. At press time, it was unclear what plans exist for this eventuality.

# One third of freshmen declare Course 6, MechE is runner-up

## *Majority enroll in School of Engineering, 1% in SHASS*

**By Patrick Wahl**

Enrollment in the Sloan School of Management's revamped Course 15 soared while Course 6 predominated yet again as the Registrar's Office tallied the selected majors of the Class of 2019. Of the class's 1,108 members, 385 (35 percent) declared one of the Department of Electrical Engineering and Computer Science's four subjects, Course 6-3 (Computer Science and Engineering) chief among them with 200 freshmen, nearly as many as the entire School of Science.

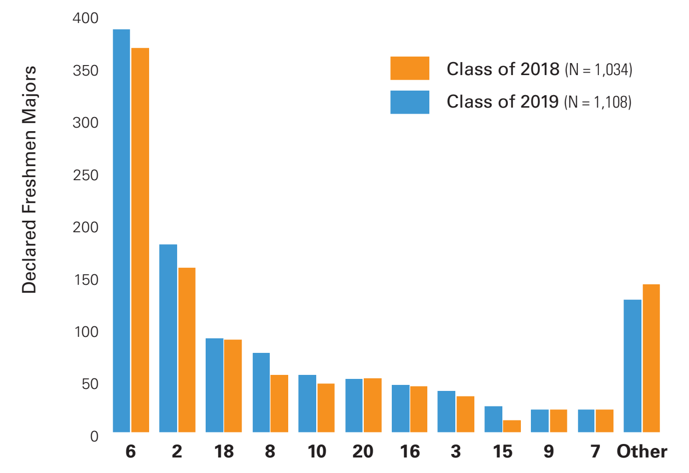
Second most popular was the Department of Mechanical Engineering, with 179 declarers, though for the Class of 2018 its numbers rose considerably between freshman spring and sophomore fall. Course 2A, which dominated its traditional counterpart Course 2 for the second year in a row, remains a popular choice for students wishing to study mechanical engineering while having the flexibility to explore other areas of interest.

The usual standbys, Course 8 (Physics), Course 20 (Biological Engineering), and Course 18 (Mathematics) received substantial fractions of freshmen as well. Course 18C (Mathematics with Computer Science), which historically has garnered fewer than half as many students as Course 18, acquired 41 first-years compared to the math department's 48 this year, a significant increase.

Course 15, declared by 24 people, recovered somewhat from lagging numbers in recent years, receiving more than twice as many freshmen as it did from the Class of 2018 but not quite reaching levels it enjoyed before 2012. The department has worked with students over the past year to create a more robust, personalized program complete with three different majors (Management, Business Analytics, and Finance) as opposed to its previous solitary offering of Management Science.

Other departments fared less favorably. Not a single freshman chose to enroll in the humanities majors 21M (Music and Theater Arts), 21W (Writing), or 24-1 (Philosophy). Course 10C, the Department of Chemical Engineering's

**Course 6 most popular, again**
Number of Declared Freshmen Majors: May 2016 v. May 2015



Source: Registrar
*INFOGRAPHIC BY ANTHONY YU*

**Majors,** Page 10

# Admins: students miss mark on drug policies

## *Students want a clear help-seeking policy that treats drug and alcohol use the same*

**By Karleigh Moore**
*EDITOR*

There is no "vast difference" between the way that drugs and alcohol are treated under MIT's Good Samaritan Policy, Kevin Kraft, the Director of Student Citizenship, said in an interview with *The Tech* last Thursday.

After being urged by UA councilors to voice their opinions on the Good Samaritan Policy, students have been sending emails to the Committee on Student Life, which is currently reviewing the alcohol and drugs help-seeking policies, calling for equal treatment under the policy for alcohol and drugs.

While there are some "slight differences" in the way that drugs and alcohol are treated, policies that students are calling for "is essentially what is happening," Kraft said.

The Mind and Hand Book's alcohol and drug help-seeking policies state that "when a student seeks attention for an [alcohol or prohibited substance]-related medical emergency, MIT will treat the situation as a health and safety matter."

However, the alcohol policy explicitly states that the situation will not be treated as a "disciplinary incident." This phrase is absent in the prohibited substance policy, and this policy includes an extra statement that "each incident will be reviewed to determine if the situation warrants additional administrative or disciplinary action."

The alcohol help-seeking policy also includes the provision that "students who are the victim of a crime while under the influence of alcohol will not face disciplinary repercussions related to the incident," but an equivalent statement is absent from the prohibited substances help-seeking policy.

This difference exists "because

**DSL,** Page 3

## IN SHORT

**The last day of classes** is Thursday, May 12.

**Moving Day at MIT: Crossing the Charles** is occuring on Saturday, May 7 from 1-3 p.m.

**Finals week** is May 16 - 20

**Commencement** is Friday, June 3

**Send news and tips to *news@tech.mit.edu.***

### REFLECTION AND INCLUSIVITY

BSU recommendations a semester later and reflections on bisexuality. **OPINION, p. 4**

### PORTRAITS OF RESILIENCE

Double pillars of well-being. **CAMPUS LIFE, p. 6**

### MAKING PROGRESS

Leading and being lead by change. **CAMPUS LIFE, p. 6**

### DANCE AND FILM

Swan Lake takes flight with spring premiere. **ARTS, p. 9**

### SOFTBALL

An interview on sports, data, and Type I diabetes. **SPORTS, p. 20**

### SECTIONS

Opinion . . . . . . . . .4
Campus Life . . . . .6
Arts . . . . . . . . . . . .9
Fun Pages . . . . . .14
Sports . . . . . . . . .20

DANIEL MIRNY—THE TECH

**Jeremih performed at this year's SpringFest concert** this past Friday.

# MIT to offer Korean language classes in the fall

Starting September 2016, MIT will offer four Korean language classes: Korean I and III over the fall semester, and Korean II and IV in the spring. There is also an option to take an intensive Korean I class over IAP.

MIT has offered the same four semester-long Korean classes since the fall of 2014; however, these courses are sponsored by Wellesley College in partnership with the MIT-Korea program. MIT students would have to cross-register to take these classes, which are taught by Wellesley College instructors on MIT's campus, according to Matt Burt, managing director of MIT-Korea.

"The current Korean classes have high student demand, and every class at the beginning level was oversubscribed in the fall. As a result, [the School of Humanities, Arts and Social Sciences] thought that it would be a good idea to add Korean to the syllabus," Burt said in an interview with *The Tech*.

The current classes, though, are only available to students who want to participate in MIT-Korea MISTI or Global Teaching Labs. Both programs require students to have taken Korean IV or equivalent, which prevented many students from getting accepted into either one. The new classes will be open to all students.

"There's been a lot of interest in MIT-Korea on campus," Burt added. "I turned a lot of people down because of a lack of language experience, so most program participants are of Korean heritage. People are interested in Korean popular culture, but also want to explore Korea's growing technological scene, which appeals to the MIT community."

"MIT-Korea launched in 2012. The first year, we only had five interns. This year, so far, we had 16 students travel to Korea over IAP and at least 20 interns will be working there in the summer. I suspect that there would have been more students going had there been the option to take MIT-taught Korean classes, so hopefully, the number of participants in MIT-Korea will only rise with this change."

Emma Teng, who is the head of the Global Studies and Languages Department (GSL) at MIT, told *The Tech* that the proposed curricula of these courses are almost identical to their Wellesley College-taught predecessors, and GSL is working closely with faculty at Wellesley to fine-tune the syllabus.

Teng hired an instructor to teach these classes on Monday; the new faculty member is Dr. Hee-Jeong Jeong, a Korean linguistics professor currently working at Rice University.

MIT students will not be able to select Korean as their HASS concentration for the time being, but Teng hopes that this will change in the future. "Right now, you cannot concentrate in Korean specifically, but you can concentrate in 'Other Languages' if you cross-register at other schools and take language classes elsewhere. Students will be able to use MIT's new Korean classes to fulfill the requirements for 'Other Languages,' or, alternatively, concentrate in 'Asian and Asian Diaspora Studies.' This may change in a few years."

"In addition to these new Korean-language classes, GSL offers a range of classes about global cultures and languages," SHASS Dean Melissa Nobles told *The Tech* in an e-mail. Two new Korean culture classes being offered in the fall are Intro to East Asian Culture: Zen to K-Pop and Digital Media in Japan and Korea.

"I am very pleased with the addition of MIT-taught Korean classes," Nobles said. "I know there is a lot of student interest in learning [the language], and I am happy that our students can take the classes here at MIT."

*—Divya Gopinath*

RIDE WITH US

1.99% APR* AUTO LOAN

If green is your color, you'll receive an extra .25% discount on your auto loan for a hybrid car.

mitfcu.org/openroad

MIT FEDERAL CREDIT UNION

*Call:* 617-253-2845 | *Click:* mitfcu.org | *Visit:* **Cambridge:** Student Center (W20-116); 700 Technology Square (NE48)

*Federally insured by NCUA*

*APR = Annual Percentage Rate. Offer valid May 1, 2016. Rate shown reflects a 0.25% discount requiring Smart Money Rewards+ membership and is subject to individual credit worthiness. Other rates may apply for other terms. The payment for a loan of $20,000 for a 60 month term at 1.74% APR is $348.30. The monthly payment for a loan of $20,000 for a 60 month term at 1.99% APR without Smart Money Rewards, is $350.48. Some restrictions may apply. Advertised rates and terms are subject to change without notice. Existing MIT Federal Credit Union auto loans are not eligible for refinance. +To qualify for Smart Money Rewards, we must receive your net pay, pension, or Social Security via direct deposit in excess of $100. If at any time your Checking Account is closed or becomes inactive (zero transaction[s] within the past 90 days or direct deposit is cancelled), the rate will be increased by 0.25%. Direct deposit must be set up within 90 days of loan closing date. One or more direct deposits must post and clear to the checking account within each monthly statement cycle.

```
File   Edit   Options   Buffers   Tools   Im-Python   Python   Help
from new_skills import *

def learnMarketableJobSkills():
    return linux, OSX, javascript, applescript, perl, python, PHP

if self.interest == True:
    print "E-mail join@tech.mit.edu"
----:----F1 joinTechno.py       (Python)--L1--Top----------------------------------------------------------------------------
```

# Davis: policy's ambiguity puts student lives at risk

## *Kraft said the current policy has 'many clear statements' and flexibility is beneficial*

**DSL,** from Page 1

the impact of alcohol on a person is pretty much a known entity regardless of the type of alcohol and then with drugs — be it marijuana, be it heroin use, be it cocaine — they have very different impacts on an individual," Dean Judy Robinson, Senior Associate Dean for Student Outreach and Support said.

UA President Matthew J. Davis '16 says he doubts that the effects of drugs are unclear while the effects of alcohol are well-known for an individual, but if it is true, he claims that the need for an equivalent help-seeking policy is "even more obvious."

"If we are unsure about the effects of drugs on a student, is it not even more important that we get help for them right away?" Davis asks.

Robinson said that the addition to the help-seeking policy for prohibited substances means that "every situation will be reviewed to just look at it more carefully."

"That gives some flexibility for looking at the nature of the drug use, the impact of it, what happened, what were the circumstances," she said.

"[P]rohibited substances is a much bigger category than … the other category, which is just [a] singular focus on alcohol," Kraft said.

It is, however, within the jurisdiction of the CSL to recommend narrowing the policy's focus, if they so choose.

A policy where students have to "worry about … future repercussions" when seeking help "puts lives at risk," Davis said in an email to *The Tech*.

In order to have a help-seeking practice that puts the health and safety of students first, there should be "no contradictions and no exceptions," Davis said. "If MIT wants to tell its students that [their] health and wellness" is the first priority, "complete equivalence" is necessary.

Students have also voiced concerns that the current policy does not make clear what happens to an individual who is transported for alcohol or drug use.

*The Tech* spoke with a student, who asked to remain anonymous, who was transported in a case of intoxication. The student, who was underage, had attended a party in their dorm, and a friend called for help when it seemed that they were in need of medical attention.

Some hallmates noticed that this person was vomiting a lot after being asleep.

"I … knew that they were really drunk and they weren't able to walk in a straight line, so we called the MIT police number to get EMS sent over," Lorraine K. Wong '17 said.

"There were other people on the hall who were wary of calling EMS, and told me not to call the police and EMS because they were scared that there would be consequences for everyone around because there were other people who were drinking because there was a party," she said.

"A couple of days [after being transported], I received an email from Don Camelio. That was a nice email. It was very in line with what I thought was the spirit of the Good Samaritan Policy: to treat incidents as health-related first," the student said.

"Then, I received this very probably generic email from the [Office of Student Citizenship]. That [was] very different, like 'oh you might have broken Institute policy, your registration might be put on hold' and lots of scary things."

The student was confused about why they had been contacted by the Office of Student Citizenship when they had believed they were protected by the Good Samaritan Policy.

In total, the student was contacted by the CDSA, the OSC, their RLAD, their GRT, and the Dean on Call.

"It was incredibly overwhelming [to be contacted by so many administrators] and it wasn't something that I felt like rehashing over and over again," the student said. "It was kind of alarming how many people get alerted to this."

The OSC decided after meeting with the student that the case did fall into the help-seeking category, and the student did not face punishment.

A situation is considered help-seeking when a friend calls for help for an intoxicated person, or an intoxicated person calls for help for themselves. An example of a situation where a non-help-seeking transport could arise is if an individual is "passed out in the middle of the street and the police find [them] or [they're] arrested for public intoxication and instead of taking [them] to jail they transport [them] to the hospital," Kraft said.

"This [letter] is not sent every time. In fact, the first point of contact we have with a student when we know it is help-seeking is Don [Camelio] reaching out," Robinson said.

"We figure...out [if a situation is help-seeking or not] based on all the information that we have. Sometimes there is a police report, sometimes there is a dean on call report … We will … take a comprehensive look at all the information we have and make a decision based on that," Kraft said.

"A letter like this would go out … [to notify] the student that we've got a report and [ask] them to come in and tell us more about what is going on. This is sent when the initial information we have at the time … indicates that [the situation was] not help-seeking," Kraft said.

Though the student eventually realized that their meeting with the OSC was meant to gather more information about the incident, this was not clear from the content and tone of the letter. "It felt more like they were starting a disciplinary case," the student said.

"What I found through the meetings I had was ultimately: sometimes the police report has to reflect that [a call] is help-seeking in order to fall under the Good Samaritan Policy. To me, if a friend calls for help for a friend, I don't see how that's not obviously help-seeking," said the student.

"I would have had a very different experience if I had never gotten that [OSC] email. I probably would've had a much more positive view of the Good Samaritan Policy working as I feel was intended."

Matthew Bauer said that it is not the responsibility of the police to indicate if a situation is help-seeking or not, though Kraft and Robinson said they do use information from police reports, if it is available, when determining if a case is help-seeking or not.

In the case of a non-help-seeking situation, MIT deals "with [the situation] from a student conduct perspective," said Robinson. "[We try] to treat … the students as adults. With that, when it is a conduct case, adult decisions have consequences."

Students have also expressed concerns that the Good Samaritan Policy, as written, is unclear and unspecific.

Robinson said that getting feedback from students "around the communication and how we inform students" is useful.

Kraft said the policy is already clear: "when people are saying what they want is a clear statement, you know, the help-seeking policy has several clear statements."

Kraft says that having a blanket statement with no exceptions or caveats "seems attractive when you're thinking about it in the abstract" but that students in the review process "would want people to consider [their] whole circumstances, [they] would want people to consider flexibility."

"It is a work in progress because we are not all agreeing yet on what [the best policy] looks like but it is absolutely about student safety," Robinson said.

All three administrators emphasized that they wished to clearly communicate the policies with students and that the health and safety of students is the top priority.

"Dean Robinson, Kevin Kraft, and Don Camelio may want to assess whether communication is the problem, or whether the message is the problem," Davis said. "When you attempt multiple outreaches to students; when you attempt multiple educational programs; and the number of drug transports does not go up, perhaps it is the message itself that is the problem, not how you are broadcasting it. In this case, that message is a contradictory Good Samaritan Policy, and it needs to change."

Don Camelio, the Director of the Office of Community Development and Substance Abuse, said that when a help-seeking policy for alcohol was introduced, the number alcohol-related medical transports increased — more students called for help.

"I am confident that they would find the same result if they fervently enacted an equal help-seeking policy for drugs," Davis said.

Davis said that data has shown that the MIT campus has a "prevalent alcohol and drug culture" and the "number of medical transports is exceptionally low compared to our peer [schools]."

Until drugs and alcohol are treated equally under MIT's Good Samaritan Policy, "no amount of educational outreach will be effective," Davis said.

*Editor's note: a member of* The Tech *is friends with the anonymous student.*

2016 Spring A Cappella Concert
TECHIYA
for PRESIDENT
Make A Cappella Great Again!
Sunday 5/8 • 6-120 • 5PM
Free Admission
UA

The Tech
Established 1881

**Chairman**
Colleen Madlinger ’17

**Editor in Chief**
Katherine Nazemi ’17

**Business Manager**
Aaron Zeng ’18

**Managing Editor**
Vivian Hu ’18

**Executive Editor**
William Navarre ’17

*NEWS STAFF*

**Features Editor:** Drew Bent ’18; **Staff:** Emma Bingham ’19, Divya Gopinath ’19, Vivian Zhong ’19; **Meteorologists:** Colin Thackray G, Vince Agard ’11, Costa Christopoulos ’17.

*PRODUCTION STAFF*

**Editor:** Justine Cheng ’17; **Associate Editors:** Hannah Rudoltz ’18, Samir Wadhwania ’18; **Staff:** Emily Weng ’19, Wei H. Wu ’19; **Illustrator:** Taksapaun Kittiakrastien ’14.

*OPINION STAFF*

**Editor:** Claire Lazar ’17; **Associate Editors:** Michael Beautyman G, Keertan Kini ’16; **Staff:** Feras Saad ’15, Isaac Silberberg ’16, Suri Bandler ’17.

*SPORTS STAFF*

**Editor:** Souparno Ghosh G; **Staff:** Margaret H. Carpenter ’17, Ali C. Soylemezoglu ’17, Zachary Collins ’19, Yueyang Ying ’19.

*ARTS STAFF*

**Editors:** Karleigh Moore ’16, Tara Lee ’17; **Associate Editor:** Nafisa Syed ’19; **Staff:** Josh Cowls G, Carolyn Fu G, Denis Bozic ’15, Alexandra Sourakov ’18, Ka-Yen Yau ’18, Gabe Fields ’19.

*PHOTOGRAPHY STAFF*

**Editors:** Lenny Martinez ’17, Daniel Mirny ’18, Robert Rusch ’18; **Associate Editors:** Ho Yin Au ’13, Tristan Honscheid ’18; **Staff:** Alexander C. Bost G, Melissa Renée Schumacher G, Christopher A. Maynor ’15, Sherry Ren ’15, Skyler E. Adams ’16, Sarah Liu ’16, Landon Carter ’17, Chaarushena Deb ’18, Megan Prakash ’18, Jessie Wang ’19.

*CAMPUS LIFE STAFF*

**Editor:** Kath Xu ’16; **Associate Editor:** Chloe Yang ’19; **Staff:** Elaine Lin ’18, Jing Lin ’18, Nina Lutz ’19, Michal Shlapentokh-Rothman ’19.

*BUSINESS STAFF*

**Advertising Managers:** Angela Leong ’18, Jessica Pointing ’18; **Operations Manager:** Christopher Wang ’19; **Staff:** Nayeon Kim ’16, Joyce Zhang ’16, Fiona Lam ’17, Eli D. Scher-Zagier ’18, Amy Wang ’18, Catherine Looby ’19, Jisoo Min ’19, Caroline Pech ’19, Milka Piszczek ’19, Katherine Wang ’19.

*TECHNOLOGY STAFF*

**Director:** Jiahao Li ’18; **Staff:** Greg Steinbrecher G, Zygimantas Straznickas ’17.

*EDITORS AT LARGE*

**Contributing Editors:** Sanjana Srivastava ’18, Ray Wang ’18; **Senior Editors:** Will Conway ’16, Leon Lin ’16, Anthony Yu ’16.

*ADVISORY BOARD*

Paul E. Schindler, Jr. ’74, V. Michael Bove ’83, Barry S. Surman ’84, Deborah A. Levinson ’91, Karen Kaplan ’93, Saul Blumenthal ’98, Frank Dabek ’00, Satwiksai Seshasai ’01, Daniel Ryan Bersak ’02, Eric J. Cholankeril ’02, Nathan Collins SM ’03, Tiffany Dohzen ’06, Beckett W. Sterner ’06, Marissa Vogt ’06, Andrew T. Lukmann ’07, Zachary Ozer ’07, Austin Chu ’08, Michael McGraw-Herdeg ’08, Marie Y. Thibault ’08, Ricardo Ramirez ’09, Nick Semenkovich ’09, Angeline Wang ’09, Quentin Smith ’10, Jeff Guo ’11, Joseph Maurer ’12, Ethan A. Solomon ’12, Connor Kirschbaum ’13, Jessica J. Pourian ’13, Aislyn Schalck ’13, Anne Cai ’14, Jessica L. Wass ’14, Bruno Faviero ’15, Kali Xu ’15, B. D. Colen.

*PRODUCTION STAFF FOR THIS ISSUE*

Anthony Yu ’16, Justine Cheng ’17, Colleen Madlinger ’17.

*The Tech* (ISSN 0148-9607) is published on Thursdays during the academic year (except during MIT vacations) and monthly during the summer by The Tech, Room W20-483, 84 Massachusetts Avenue, Cambridge, Mass. 02139. Subscriptions are $50.00 per year (third class). **POSTMASTER:** Please send all address changes to our mailing address: The Tech, P.O. Box 397029, Cambridge, Mass. 02139-7029. **TELEPHONE:** Editorial: (617) 253-1541. Business: (617) 258-8324. Facsimile: (617) 258-8226. *Advertising, subscription, and typesetting rates available.* Entire contents © ***2016 The Tech**. Printed by Turley Publications, Inc.*

## LETTERS TO THE EDITOR

# Addressing recommendations for inclusivity

Since December, we have had the exciting opportunity to work together in a historic collaboration of students and senior administration to consider the recommendations for a healthier and more inclusive MIT community that were made last fall to Academic Council by the Black Students’ Union (BSU) and Black Graduate Student Association (BGSA). Working closely with dozens of other students, deans, department heads, faculty, staff, and alumni, we have made good progress on critically important issues for our community. Throughout this period, we have been listening carefully to many groups as they articulate opportunities for change.

We were pleased to report on our progress at Friday’s Diversity Forum in a “town hall” event that answered questions and engaged in conversation about next steps. Our work with the BSU and BGSA recommendations are summarized in a table that describes our progress, and it is available online at the diversity.mit.edu/activities website. Recent MIT News Office articles also describe our actions to date, including the appointment of JJ Jackson as MIT’s diversity and inclusion officer and a key member of our implementation team. Rasheed Auguste, one of our members, has an essay elsewhere in today’s issue of *TheTech* on his experiences surrounding the creation and consideration of the recommendations.

Our working group’s focus is now expanding to the many recommendations that we are receiving from other ethnic, religious, gender and sexual orientation, and physical abilities groups. These recommendations come from across our community, including from our students, faculty, staff, and alumni. As our work continues in the months to come, we hope to hear from all members and groups who wish to contribute to this important work. And we will report again on our progress when our full community reconvenes in the fall.

*Rasheed Auguste, Class of 2017*

*Cynthia Barnhart, Chancellor*

*Ed Bertschinger, Institute Community and Equity Officer*

*Chris Bourg, Director of Libraries*

*Mark DiVincenzo, Vice President and General Counsel*

*Lorraine Goffe-Rush, Vice President for Human Resources*

*Alberto Hernandez, Class of 2017*

*Kirk Kolenbrander, Vice President*

*Melissa Nobles, Dean of the School of Humanities, Arts, and Social Sciences*

*Christopher David Smith, Graduate student*

*Ellen Rice Staten, Graduate student*

# A reflection from within the LGBTQ community

## *Allies can help us learn to accept our identities*

**By Dana Vigue**

When people find out that I identify as bisexual, it’s not unusual for them to respond, “I wish I were bisexual! That would make life so much easier. Twice the choices!”

Being bisexual does not make life easier. It is not a convenience, and it does not double my chances for love. In fact, it reduces them. Drastically. And it also reduces my chances for self-love and acceptance. In fact, my bisexual identity has consistently strained my familial and romantic relationships, and challenged me to love myself throughout the hardships I’ve endured.

As a bisexual woman, I’ve navigated the years of confusion, self-doubt, and anxiety associated with understanding and accepting my sexual orientation. I went through the heart-wrenching process of confiding in my loved ones, one by one. Some immediately accepted me. Others responded with disbelief, arguing that I was wrong and that I could not possibly know I was bisexual without first having sex with a woman. Others scolded me, declaring that my sexuality was not something I should go around proclaiming. Their consistent denial of my lived experience fueled my self-doubt and eroded my sense of self-worth.

> **Paradoxically, I was neither gay enough nor straight enough to be loved and trusted by many of the people in my life.**

I then felt the growing pains of exploring my own identity, facing rejection from some members in the LGBTQ community and doubting my identity in the face of biphobia. Many men I met fetishized me until they realized my capacity for real, emotional love with women. Then they rejected me, sure that I would eventually leave them for someone of the opposite sex. Others incorrectly assumed that one partner would never be enough for me, then fled, intimidated. Various lesbian friends classified me as a gay cop-out, as if the issue was my unwillingness to face the “full” stigma of homosexuality. Or they argued that I only expressed interest in women for attention. They were disappointed by the presence of men in my romantic life. Paradoxically, I was neither gay enough nor straight enough to be loved and trusted by many of the people in my life.

Even worse, I went on to endure slut-shaming and the verbal and emotional abuse to which bisexual women are often subjected. The introspective and spiritually satisfying exploration of my recently-realized identity was reduced to some version of a Girls Gone Wild story. Male friends I had entrusted with my identity made jokes behind my back. I was hyper-sexualized, dehumanized, and shamed. The derision I faced in response to my intimate decisions derailed my path to self-acceptance.

Temporarily.

I had always felt that MIT encouraged authenticity and was a place where unique interests and accomplishments were celebrated: a safe-haven for “nerds.” I didn’t realize the capacity of this community to embrace and nurture such an intimate aspect of my identity — it simply seemed too much to expect. But the same community of peers who celebrated my academic successes poured their emotional energy into standing by me as I worked to make sense of my identity. I had struggled for so long, unaware that I could confide in the community I called home. The previously untapped love and acceptance that I found pushed me to love and accept myself.

> **The previously untapped love and acceptance that I found pushed me to love and accept myself.**

Today, as a more resilient and confident bisexual woman, I am proud of my capacity for love. I never would have thought that a community of straight people who could not empathize with my experience could serve as my rock. I hope to remind straight members of the MIT community that you are not excluded from the LGBTQ community. Stand by our sides as we learn to embrace ourselves and help others to accept themselves. Though you have never experienced life as an LGBTQ person, you can show us loyalty, love, and friendship when the world around us starts to crumble. We live on a fault line, and our lives are sure to be shaky at times. As an ally, you can hold us, pick us up, or at least lie with us on the ground until the earth stops shaking.

*Dana Vigue is a member of the Class of 2017.*

## OPINION POLICY

**Editorials** are the official opinion of *The Tech*. They are written by the Editorial Board, which consists of Chairman Colleen Madlinger, Editor in Chief Katherine Nazemi, Managing Editor Vivian Hu, Executive Editor William Navarre, and Opinion Editor Claire Lazar.

**Dissents** are the signed opinions of editorial board members choosing to publish their disagreement with the editorial.

**Letters to the editor**, **columns**, and **editorial cartoons** are written by individuals and represent the opinion of the author, not necessarily that of the newspaper. Electronic submissions are encouraged and should be sent to *letters@tech.mit.edu*. Hard copy submissions should be addressed to *The Tech*, P.O. Box 397029, Cambridge, Mass. 02139-7029, or sent by interdepartmental mail to Room W20-483. All submissions are due by 4:30 p.m. two days before the date of publication.

Letters, columns, and cartoons must bear the authors’ signatures, addresses, and phone numbers. Unsigned letters will not be accepted. *The Tech* reserves the right to edit or condense letters; shorter letters will be given higher priority. Once submitted, all letters become property of *The Tech*, and will not be returned. Letters, columns, and cartoons may also be posted on *The Tech*’s Web site and/or printed or published in any other format or medium now known or later that becomes known. *The Tech* makes no commitment to publish all the letters received.

**Guest columns** are opinion articles submitted by members of the MIT or local community.

## TO REACH US

*The Tech*’s telephone number is (617) 253-1541. Email is the easiest way to reach any member of our staff. If you are unsure whom to contact, send mail to *general@tech.mit.edu*, and it will be directed to the appropriate person. You can reach the editor in chief by emailing *eic@tech.mit.edu*. Please send press releases, requests for coverage, and information about errors that call for correction to *news@tech.mit.edu*. Letters to the editor should be sent to *letters@tech.mit.edu*. *The Tech* can be found on the World Wide Web at *http://tech.mit.edu*.

# The UK is stronger in Europe

## *Britons should vote to stay in the European Union*

**By Daniel Perry**

We Americans often lament the increased divisions in our country, but the U.S. is far from alone in dealing with this problem. In Europe, there is a growing movement to destroy the fundamental basis of the continent's unity: the European Union. Across the continent, several political groups from the AFD in Germany to the National Front in France have pushed for their countries to leave the EU altogether. In all the continental European nations, these groups remain on the margins. Yet in one nation, the U.K., the Eurosceptics have consumed the governing party and have managed to force a referendum on the issue of EU membership to be conducted this June. If this referendum is successful, it could embolden continental opponents to the EU and begin the slow unravelling of Europe.

The EU is the most well-developed transnational institution on earth, the culmination of 70 years of effort in the European project. This project, started by the United States after WWII to "guarantee peace, freedom and security" in the continent, has proven remarkably successful despite recent problems in the Eurozone. The U.K. is the third largest member of the EU and one of its most important voices. Yet many advocates for "Brexit," Britain's exit from the EU, are trying to convince the citizenry that leaving is necessary. Leave.EU, one of the main Brexit campaign organizations, has published six "facts" supporting this position, all of which are based on weak foundations.

The first is that "leaving the EU would give [the U.K.] more control of [its] laws and regulations." It states that the EU is "responsible for more than half of the U.K.'s legislation." However, this claim is misleading as the very paper they cite states that only "6.8 percent of primary legislation (Statutes) and 14.1 percent of secondary legislation (Statutory Instruments)" in the U.K. were created to implement EU obligations. The only way a 50 percent figure could be reached is by taking an extraordinarily broad view of EU influence. Regardless, it is unreasonable to think the U.K.'s laws should be completely uninfluenced by other countries.

The second argument is that "leaving the EU would give the U.K. more global influence, not less," but it is hard to see how the U.K. would gain influence with other countries when many of its major allies, including the U.S., are campaigning for it to stay. The only world leader actively desiring Brexit is Russia's Vladimir Putin, an individual not well known for his commitment to a stable Europe. The Brexit advocates insist that Britain will maintain a strong relationship with NATO and the UN. However, if they look toward establishing influence based on stronger participation in multinational institutions, it does not seem consistent for them to push for the U.K. to leave the most well-developed multinational institution on earth.

The third argument presented by Leave.EU is that "leaving the EU would give the U.K. the freedom to make its own global trade deals." However, it seems doubtful that the U.K. will have more influence in trade negotiations when participating as a single nation with a GDP of less than three trillion dollars than as part of a block five times that size. President Obama has even stated that after Brexit, the U.K. would be at the "back of the queue" when creating new trade deals.

However, the leave campaigners are correct that once the U.K. leaves the EU it would immediately have to start working on trade agreements, 27 of them, one for every single member state that it currently has access to under the single EU market. The leave campaigners offer two possible solutions to the problem of European trade. One is that the U.K. will somehow secure a massive comprehensive deal with the organization it just explicitly rejected. Or, the campaigners propose creating an extensive system of bilateral trade deals such as the one that Switzerland possesses. The comprehensive approach is a fanciful as it sounds, and the bilateral one ignores the fact that it took the Swiss decades to develop its trade system. Furthermore, that system is quite limited in terms of services, which constitute a large portion of Britain's exports.

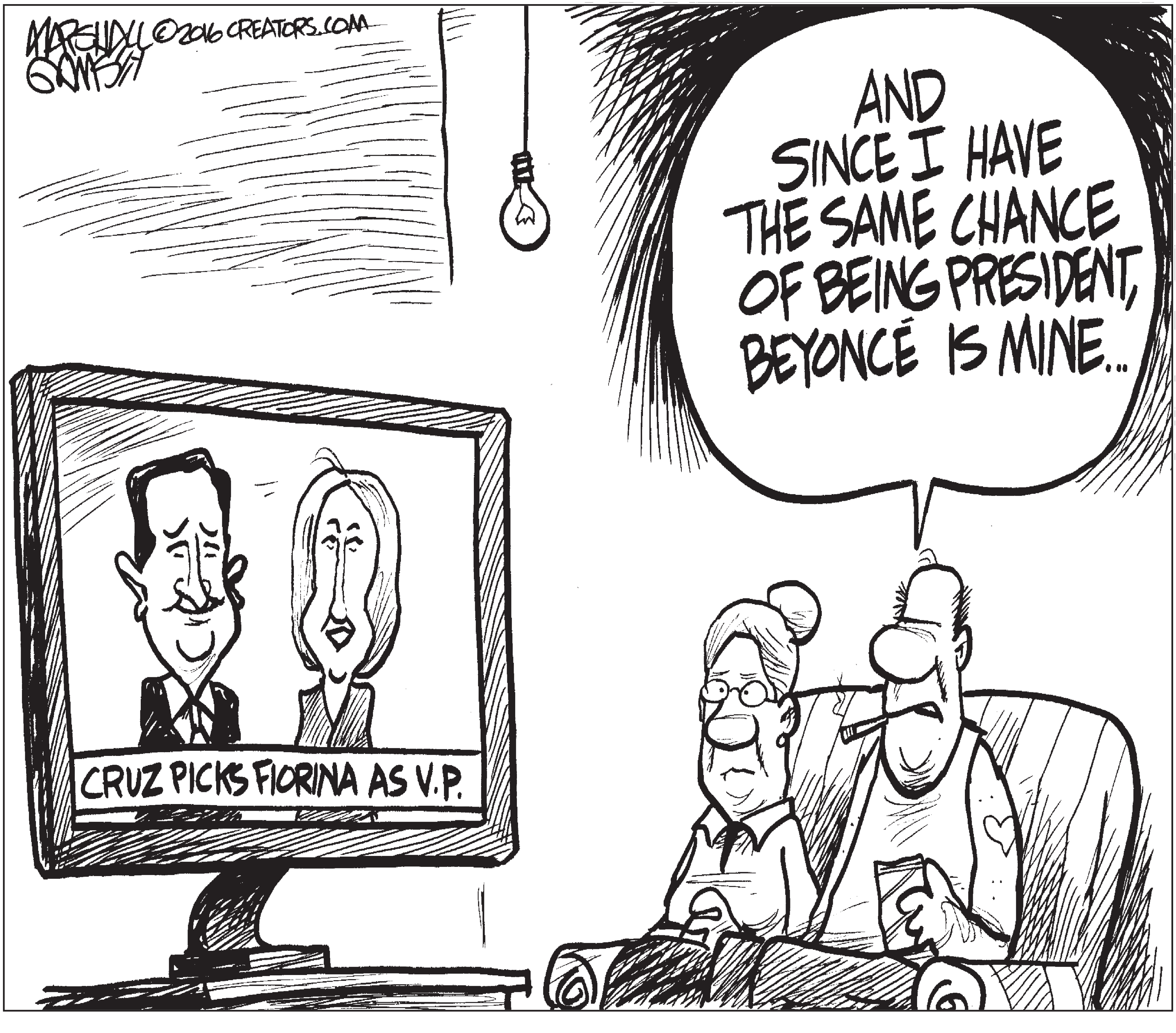
Fourth comes the argument that "leaving the EU is a less risky option than staying in." This is highly unlikely. Severing an extensive system of ties with origins dating back to 1973 can hardly count as a safe option. Advocates for Brexit insist, however, that one of the "core objectives of the European project is a drive toward 'ever-closer union,'" and that Britain must leave now or condemn itself to membership in a "United States of Europe." Yet, the "closer union" maxim fell out of favor a long time ago, and anyway, it is currently irrelevant to Britain as Mr. Cameron has convinced Brussels to excuse Britain from this clause in the EU treaties. An equally preposterous notion floating around the Brexit camp is that the U.K. could eventually be forced to enter the Euro. In fact, this would be impossible under the basic framework of the EU.

Leave.EU's fifth argument is that "leaving the EU would give [the U.K.] back control of [its] borders." Immigration is a key subject for the British, with a survey showing that the public viewed it as the "most important issue facing Britain." However, leaving the EU is unlikely to improve Britain's control as both Switzerland and Norway, the non-EU countries that Brexiters often claim they want to emulate, both have to accept the free movement of people. In particular, when the Swiss voted in a 2014 referendum to "impose quotas on [EU] migrants," the EU simply declined to enter negotiations. Restricting the free movement of people from the EU to the U.K. would not require leaving the EU, but complete separation from Europe. Moreover, there is no substantial evidence that EU migrants to Britain impose a significant burden on the government. A recent study by the University College London showed that EU migrants that arrived from 2001 to 2011 made a net contribution of £20 billion to the government budget.

The final argument is that "leaving the EU would mean more money in [Britons'] pocket[s]." However, the actual net U.K. contribution to the EU is less than £4 billion (or 0.21 percent of the U.K.'s GDP). Moreover, this claim does not factor in the economic benefits provided by EU membership, which would be lost after Brexit. A recent report by The Centre for Economic Performance at the London School of Economics stated a conservative estimate for the U.K.'s output loss following Brexit would be 2.2 percent of GDP, or £41 billion. Rather than putting money in their pockets, Brexit would leave Britain in a substantially worse financial situation.

Overall, the "facts" presented by the leave campaign are simply not true. Leaving the EU will not result in a stronger U.K. Rather, it would result in a weaker country with a damaged economy. The foundation of the Brexit campaign is based on lies spread by dishonest politicians; its promises ring as hollow as those in the U.S. "to make America great again." In reality, countries cannot achieve prosperity by weakening global ties.

Britain's exit from the EU would hurt more than just Britain's interests. It is also in opposition to the interests of the entire continent. The falsehood at the base of the Brexit campaign is that the U.K.'s fate is separable from that of Europe as a whole. In fact, their destinies are intertwined. If the U.K. takes this extraordinary step to injure a fundamental bond, its effects will be felt throughout the continent and, inevitably, around the world.


MARSHALL RAMSEY ©2016 CREATORS.COM
CRUZ PICKS FIORINA AS V.P.
AND SINCE I HAVE THE SAME CHANCE OF BEING PRESIDENT, BEYONCÉ IS MINE...

## PORTRAITS OF RESILIENCE

# Anita Horn

COURTESY OF DANIEL JACKSON

*Editor's Note: Portraits of Resilience is a photography and interview series by Prof. Daniel Jackson. Each installment consists of a portrait and a story, told in the subject's own words, of how they found resilience and meaning in their life.*

In many ways, I had an idyllic upbringing. I was the seventh of eight children. My family was very close, and my parents were always there. I had a babysitter exactly once growing up. But my family thought that people wouldn't tell you if you were doing something wrong, so it was their job to do that. I was kind of weak, and a very shy child. My siblings were 13 to 23 years older than me, so it was like dealing with eight parents at once. I don't think they knew the impact their words had on me.

I was fine until I was a teenager. That was when I first started feeling like I wasn't good enough, wasn't measuring up. I went to college and moved to Denver. I struggled with feeling unstable. I needed other people, I needed their approval, I needed to be married or in a relationship. I was what you would call "high maintenance."

Then I moved to Boston and the shit really hit the fan. It was horrible. I was 28. I talked about it as my great depression, my emotional stock market crash. I didn't know anybody, and I found it nearly impossible to reach out to people. Before, people had always reached out to me. When I moved here, people were standoffish. I needed them to make me feel welcome, and they just sat back waiting for me to initiate. Not an option.

I struggled for a year and a half, and I was suicidal for a large part of that time. I went to a couple of psychiatrists and it was just a big mess, not helpful. When I described a session with one of my friends a few years later, they said, "Did he give you a gun on the way out?" It was that bad.

I was in a constant state of almost crying, or struggling to hold back tears. I would go into the bathroom at work and cry, cry, cry. People at work, I couldn't believe they didn't notice. Someone would ask me, "How was your weekend?" and I'd say, "Oh, not that great," and then they would go off on their own thing. My inner experience was so far away from what people were expecting that I couldn't even begin to broach the subject of the pain that I was in.

Things got really bad on the weekends. I felt like I had a cloud around my head, and I would walk through my neighborhood and it was like nobody saw me. I felt completely separate from the world. It was like looking through a tunnel, and people seemed so far away. At one point I went to the emergency room on a Friday and the resident who saw me was somewhat hostile, as if saying, "What are you coming to me with this stupid thing for?" She gave me Ativan which was inappropriate but got me through. I hoarded those pills. I would take one or two every weekend when things got bad (which was every weekend). It calmed things down a little. I was not the kind of person who could chat with people. At stores or restaurants I would pay and leave. I kept my eyes down, so people would be even less friendly than they might be. I would spend the whole weekend by myself. I tried to have a couple of rituals: lunch at this place, or breakfast at that place, just so I could get out. It was really, really tough.

Then I met a couple of people at work who were really friendly and lived near me. They started calling me. At that time, I couldn't call people unless I had a reason to. I couldn't stop by someone's office and say hello. I thought I'd be bothering them and that they wouldn't say anything, and would be thinking, "Oh my God, I wish she'd leave, I have work to do." That was what I thought that people were like. But they were absolutely not like that at all. These friends were really wonderful and sort of brought me out.

Then a friend in Colorado that I'd talk to once in a while told me about these Insight Seminars. I was having back issues and I went to an acupuncturist the next day and, lo and behold, he starts talking about Insight Seminars. Then, I came back to my apartment and in front of my house was a car with an Insight Seminars emblem on it. I was like, okay, I guess I'm supposed to do this.

So I went to Insight Seminars and it changed my life. You do these little processes and they seem like nothing, but every part has a purpose. They were designed to bring you awareness of your life, so you could see what was really going on and whether it made sense. One night, I was lying there and one of the exercises that day had been about guilt and resentment. I had been processing this resentment that I had for this boyfriend who didn't share my feelings. I somehow just got to the point of forgiving him. I flew out of bed and ran over to my roommate and said, "Oh my God, you'll never guess what I just realized." I was ecstatic that I could just change the story on my own, and change my feelings.

Up until that point, I felt there was nothing I could do about my emotions. They were dependent on somebody apologizing to me, somebody saying they love me. I just thought, you are this way, that's the way you are forevermore, there's nothing you can do about it. It was just a miracle to me to discover that that's not true. I can actually decide to feel different. I didn't need to be shy. I could be shy, but I could also practice not being shy. That was a concept that I was completely unaware of. It was phenomenal.

Everything I learned there in that one seminar has changed every moment of my life since. It didn't resolve my depression, but it gave me all kinds of tools, so it was manageable. I would still go into funks, but they would be a few days or a week long instead of months long.

I started practicing little things like going to a bar by myself, sitting at the bar and saying hello to the bartender. Or sitting on the T and asking the guy next to me what time it is. I had been afraid of the dark, but I realized I wasn't any more. I can shut off a light and walk into my bedroom and not expect someone to jump out at me.

I got my job at MIT, and I went to a psychiatrist as a preemptive measure because the holidays were always really hard. He thought I had seasonal affective disorder and suggested I try this medication called Celexa. Within a week, I was like "Oh my gosh, this is what normal people feel like." That medication gave me back winters. I take it now from September through April.

What you see in other people isn't all there is. You might be thinking everybody else around you has it together, but they really don't. You find out about that by being honest and vulnerable yourself. I used to think that the goal was to be perfect and that everyone expected me to be perfect. I don't feel that way anymore. I've got a lot of flaws and it's perfectly okay. I can do things that are wrong. I can make mistakes, and I can be sorry about them and apologize for them. It's absolutely not about being perfect. That's not the goal and it's not human.

*Anita Horn is a Service Quality Specialist in the Technology Services department of the Sloan School of Management.*

*This project is supported by the Undergraduate Association's Committee on Student Support and Wellness, chaired by Tamar Weseley '17 and Alice Zielinski '16. To participate in the project, or to learn more, contact ResilienceProject@mit.edu.*

*There are many ways to find help. Members of the MIT community can access support resources at resources.mit.edu/support. To access support through MIT Medical's Mental Health & Counseling Service, please call (617) 253-2916 or visit medical.mit.edu.*

*Image and text copyright Daniel Jackson, 2016.*

# Reflections of a BSU Co-Chair

## Our voyage on the S.S. Recommendations

**By Rasheed Auguste**

Every BSU Co-Chair pioneered at least one major innovation during their tenure, and I had no idea what mine would be. Then came the wave of events across college campuses such as the University of Missouri, Yale University, and Ithaca College. I felt exposed as the MIT bubble burst and the real world slipped in — social media posts of personal friends now mirrored national news headlines. This wave hit a bit too close to home.

The BSU Political Action Committee (PAC) decided to respond with solidarity. We organized a photo for a "Blackout at MIT." I was proud of MIT as folks gathered in Lobby 10 dressed in black on short notice, despite the drizzle, and stood silently for a photo.

Unexpectedly, an email from President Reif dinged into my inbox, asking to meet with executive board members of the BSU and Black Graduate Student Association (BGSA). It was validating to vent to the President of MIT about microaggressions, the pressure to defy stereotypes, and the seemingly numb indifference of our campus. His message was clear: "I [and by extension MIT] care deeply about the well-being of minority students."

He left us with a call to action: "Is there any way you can send me a list of things I can help you with?" I brought the story to my best friend and fellow Chocolate City brother Alberto Hernandez, the BSU PAC, and the minority community (via email).

After some digging, Alberto found a report from January 2010 containing some ICEO recommendations from 2015, and interestingly enough, a cover letter by Reif himself. Why had MIT gone to such lengths to commission a study on the advancement of diversity and inclusion and not implemented all the institute-specific solutions, twice? The plot thickened.

We referenced the two reports as we revised our list into recommendations. Alberto presented the unfinished list to the rest of the Committee on Race and Diversity (CRD). Afterwards, he was charged up. "Bro, we gotta make sure the things we ask for are feasible, specific to MIT, and someone will actually be responsible for making them happen!"

The next few days, we started playing Infinite Corridor pinball. Between classes, Alberto and I bounced from office to office and asked MIT staff, faculty, and students how to make sure specific recommendations would be most effective. Many meetings ensued:

Lydia Snover (Institutional Research) offered snacks with her decades of expertise in creating insightful surveys.

Dean Melissa Nobles (SHASS) told us of the wealth of existing classes that cover themes of diversity and inclusion.

Dean Stu Schmill '86 (Admissions and Financial Aid) filled us in on financial aid and minority recruitment efforts.

The PAC gave a more formal presentation on these recommendations to groups such as the BGSA, Latino Cultural Center, and LBGT@MIT.

The BSU, BGSA, Black Alumni at MIT recommendations were still unfinished when Professor Bertschinger emailed us and the BGSA, asking us to formally present them to Academic Council, the most senior leadership council at MIT. Gulp.

At the meeting, administration was encouragingly supportive. Vice President Kirk Kolenbrander went so far as to say, "Over the course of my career at MIT, there have been a few moments when I have said to myself, 'This is going to be really important for changing the future of MIT.' Your presentation to Academic Council was one of them."

With this in mind, the Black Students' Union List of Recommendations for MIT Administration went public on December 9, 2016, complete with a *.mit.edu* URL and News Office story.

Afterward, we worked with many offices to implement solutions. Chancellor Barnhart worked with Alberto, Lydia Snover's office, and I to expand questions on diversity and inclusion into Institute-wide surveys. MIT Mental Health hired a full-time mental health clinician specializing in the African Diaspora. Department heads of math, physics, and history started writing commitments to health, diversity, and inclusion.

At times, I was afraid I had lost sight of the big picture. Professor Wes Harris asked, "What is MIT supposed to look like when the recommendations are addressed?" I still struggle to answer this question substantively. Professor Harris also warned Alberto and me, "I've seen students lose their minds over this. Make sure you take care of yourself."

After all, they say MIT is a journey, but this year felt more like a voyage. Commissioned by President Reif himself, we set out on S.S. Recommendations. The sails were driven by gusts of MIT community feedback, waves were filled with self-doubt, and our trusty crew comprised friends, supporting staff, and faculty. Navigating through new spaces and working with new people left us with invaluable communication skills that could not be learned in a classroom. All this time, we struck a difficult balance between hard work and self-care.

My mother says, "You gotta love people where they're at." As MIT is swiftly moving to address the BSU recommendations and more, I remember her words to remind myself to advocate for collaboration across all levels, not negotiation. MIT has the opportunity to become the example for diversity and inclusion efforts in research environments and higher education. I look forward to fall 2016, eagerly waiting for what we, MIT, do next.

## PORTRAITS OF RESILIENCE

# Haley Cope

COURTESY OF DANIEL JACKSON

My parents were high school sweethearts. They got married after college, had me and then my two sisters. My father was the primary breadwinner. He worked at a factory making adhesives, and my mom stayed home. When my youngest sister went to kindergarten, my mom wanted to go back to work, and domestic bliss ended.

My father viewed working as selfish, and my mom gave in. Things were peaceful for a few years, until she took a full time teaching job. They argued a lot, and my father eventually escalated to physical violence. So we found a place to rent and moved out one day while my father was at work.

He didn't contact us for months. Eventually it was worked out that we would see him once a week and every other weekend. After one visit, he dropped us off and said, "I'll pick you up on Wednesday." He never showed up, and it's been five years since I've spoken to him.

The second boy I dated was the first person I ever loved (and I still love him dearly). When we broke up during my sophomore year, everything felt like it was crashing down. Our friends chose him over me, and I felt alone and ostracized. Not only did my social group fall apart, but my family fell apart, too. For the first time, I started feeling suicidal.

I began writing down my life story and trying to understand what had gone wrong. My intent was to write this story and then commit suicide. But I hadn't finished the story when the time I had planned came. The feeling of not having finished something is often what has kept me going.

I went from actively suicidal to passively suicidal (wanting to die but not wanting to take my life). My father was diagnosed with bipolar disorder, so I'm predisposed to depression. I started dating a guy who was an MIT student at the time. He was our town's star student, and I really looked up to him. He cared for me a lot and, besides my mother, is the main reason I'm here at MIT now. He got me into programming and helped me study for my SATs and APs.

My junior year of high school, I took 6.00x (an online programming course) and I got a 92 percent in it. I did really well in the science competition. That year was my most successful and my most happy. I funneled all my anger and sadness into my work, which was super good for me. I've found that hiding in my work is often an effective coping mechanism.

Over the summer, I went to science camp at Carnegie Mellon, and I started feeling sad again. It was a good camp but had a really high-key environment, a lot like MIT. We got our AP scores back, and I had gotten a four in computer science. This other kid was like, "How could you do that? It was so easy." That was when I started comparing myself to others. I'm like, "Wow, I am not as good as anyone ever." I was just sad by the end of it, and I got super burnt out.

My senior fall was okay; I spent my free time writing my essays and taking an online class. But by my senior spring, I was in a waiting game. My future wasn't in my control, and that was when I started getting into the low point where I am now, where I'm passively sad a great deal of the time.

Then I got into MIT, and I came to campus preview weekend. People were like, "I'm so into these things, and I do this cool thing, and I do this other cool thing." I was just, like, whatever. I don't do any of these things. I've just been focusing on academics. So it became a question of: what do I do? How do I measure my value as a person? I don't really know.

I got pretty depressed again and started self-harming. It was very effective. When I was very sad, bawling my eyes out, it would make me feel instantly calm. I don't do it anymore, fortunately, and the marks have faded. I learned about other techniques that work almost as well. I draw on myself sometimes, because it's a physical sensation that brings me into sharp focus.

I graduated, gave a silly speech, and was finally finished. I invited a bunch of people to my graduation party, and only three people showed up. I wasn't sad. It was just a really apt description of my high school time.

I started my freshman year here at MIT. I took classes that were too hard: differential equations, multi-variable calculus, a graduate computability class, and physics. I started drinking a lot, and I ended up failing all of my classes that fall.

That IAP, I went and taught high school in Israel in a MISTI program. I really loved the kids, and it gave me a nice context switch. I was around people with different cultural values. When I came back, I got more involved with the Jewish community at MIT. My first exposure to Judaism was through some postdocs I worked for: I heard their stories, and how it shaped them, and I celebrated Rosh Hashanah with them. I'm actually in the process of converting now. It's really nice.

That spring, I took classes that were an appropriate level for me. I ended up pulling an A in the physics class I'd failed in the fall. I joined a sorority. I had my social life and my academic life pretty locked down, but my mental health was a train wreck. I had started going to therapy after a freshman in my dorm committed suicide. I didn't know him personally, but I saw the impact on the community, on people he didn't even know. We were terribly sad and sat in our dorm lounge just crying and holding each other. I'm like, wow, this is really shitty. I don't want to be a contributing factor to that kind of sadness.

I started taking Celexa. It made me sleep more and withdraw socially, and I had a lot of suicidal ideation. I kept telling my therapist, "Hey, this isn't working." He was like, "Try another week." One week, I said, "Listen, I can't do this. I absolutely cannot do this anymore," and he was like, "See me on Friday."

Over the next two days, I really wanted to commit suicide. I said this to the therapist and he was like, "I'm going to have to go talk to someone about this." As soon as he said that and left the room, I'm like, "Fuck, I'm going to get transported." Sure enough, when he comes back, he's like, "I'm sorry. We're going to have to transport you now."

I waited in the MGH lobby for seven or eight hours before I got moved to McLean. When I got there, I was wearing my boyfriend's hoodie, and they took it from me because of the string. I just wanted a nice soft hoodie. I was used to sleeping with him every night, and suddenly I couldn't do that, and suddenly I was alone, and I was crying. One of the nurses said, "Just do what they ask you to, and you'll get out sooner." That was the least encouraging thing I had heard in a long time.

They put me in the short term unit, so I could still contact people. I had friends visiting me every single day I was there, and I appreciated that so much. Overall, it was a trippy experience. Suddenly you're in a hospital and someone is coming to check in on you every fifteen minutes to make sure you're not hurting yourself, even when you're sleeping.

On my first day in McLean, I made a friend. It turns out we were in two classes at MIT together, but didn't know because both of us were really sad and depressed and never went to class. He and I are still really close, and we talk every single day. It's really funny. Whenever people ask us how we met, there's always this looking at each other: "Are we going to tell them?" We usually do. Neither of us is ashamed.

It was a very stressful week because I didn't hear a lot from MIT. I didn't know if I was going to get kicked out. Eventually one of the MIT psychiatrists came out to see me, but I had been in there for four or five days at that point.

I got out of there, finished up my finals. Went to Atlanta, Georgia for the summer. I came back to school in the fall and did well in my classes. Overall I was pretty happy.

This spring has been kind of rough. My classes haven't been going super well, I've been withdrawing from my friends, and I haven't been able to find a regular therapist. I wish MIT Mental Health could help with that, but my referrals keep falling though.

It's funny, the guy I met in McLean also converted during our time at MIT. He converted to Catholicism. Judaism is very focused on what you do and how you live. The focus on life is what really made an opening to me. The idea that I could be learning and studying, and acting in a way that makes me feel like a better person is really appealing. I also really love Shabbat. I don't yet fully keep it; it's something I'm working toward. The idea of setting aside time to reflect and be grateful is really important to me. People at MIT are inclined to think, "Well, religion says these things, like the world is six thousand years old. That's obviously stupid." They focus less on the aspects that enrich people's lives. There are a lot of assumptions about what it means to practice religion, and I don't think they're accurate or reflect what people experience, or why people are religious.

I'm a part of four distinct communities: the East Campus community, the Jewish community, my sorority, and my square dancing club. All of these have different things that are good about them, but they are all places where I feel welcomed and at home.

As far as other life plots go, I've recently decided to switch majors to Women and Gender Studies. I'd like to graduate from MIT, get some form of a job, probably in software development or information security, then just be calm. Having a work-life balance, that's the biggest goal I will have for myself. Settle down with my partner, and eventually have a family. The American dream, I guess.

*Haley Cope is a member of the Class of 2018.*

*This project is supported by the Undergraduate Association's Committee on Student Support and Wellness, chaired by Tamar Weseley '17 and Alice Zielinski '16. To participate in the project, or to learn more, contact ResilienceProject@mit.edu.*

*There are many ways to find help. Members of the MIT community can access support resources at resources.mit.edu/support. To access support through MIT Medical's Mental Health & Counseling Service, please call (617) 253-2916 or visit medical.mit.edu.*

*Image and text copyright Daniel Jackson, 2016.*

Got a lot on your mind?

Share some thoughts with us!

Write for Campus Life. *join@tech.mit.edu*

“The nerds have officially taken over the world”*

Farhan Zaidi,

LA Dodgers GM and MIT grad,

talks about

Big Data in Baseball.

LG
Dodgers
Dodgers
LG

Thursday, May 5, 5-6pm

2-105

* Steve Dilbeck, *LA Times* sportswriter

BALLET REVIEW

# Misa Kuranaga takes flight in spring premiere of Swan Lake

## Another season, another performance of timeless Tchaikovsky ballet

ROSALIE O'CONNOR

**Ashley Ellis and Eris Nezha in Mikko Nissinen's Swan Lake.**

**Boston Ballet**

**Boston Opera House**

**Running through May 26**

**By Ray Wang**

Misa Kuranaga defies most conceptions of classical ballerinas. At 5-foot-1-inch, she looks diminutive on the stage of the Boston Ballet, but she packs everything into one small figure — as the star of Swan Lake, she's expressive, elegant, and versatile.

Composed by Pyotr Ilyich Tchaikovsky, Swan Lake is one of the most universally recognized ballets. Prince Siegfried falls in love with the White Swan, Princess Odette, who has been cursed by the sorcerer Baron von Rothbart to be a swan forever, until a man pledges his love to her. Von Rothbart, however, tricks Siegfried into pledging himself to Rothbart's daughter, the Black Swan Odile. There are many versions of the final act of Swan Lake — in Boston Ballet's interpretation, the ending is tragic for both heros and villains.

Kuranaga is wonderful at capturing the frail, tormented, hauntingly beautiful White Swan in the second act, yet is able to quickly switch to the energetic, coquettish Black Swan for Act III. The most striking sequence in the ballet, which is known for being lengthy and technically challenging, is the 32 fouettes (whip turns) by Kuranaga in the third act, as the Black Swan.

Gonzalo Garcia, who is a principal dancer from New York City Ballet, co-starred alongside Misa Kuranaga as Prince Siegfried. He only had two performances with Kuranaga, on Friday and Saturday night, but the two were perfectly matched.

Principal dancer Lasha Khozashvili towers above the rest of the cast as von Rothbart. His strength and athleticism seem to be at the bounds of human achievement, as he is able to propel his massive figure with feather-like ease.

Khozashvili displayed a stunning moment of professionalism at the beginning of the second act. As the curtain lifted, revealing the nighttime lake, and mist flooded toward the audience, Khozashvili bounded onto the stage, only to slip and fall badly. But his recovery was immaculate — in a split second, he was on his feet and flying around the stage in a difficult series of grand jetes. Audience members did not even have time to react to the error before he recovered. The determination and ability of Khozashvili is a testament to the Company and to professional dancers.

The all-Asian Pas de Trois was the most refreshing part of the first act. Junxiong Zhao, Seo Hye Han, Ji Young Chae, all young and rising dancers who have joined Boston Ballet within the last few years, were vivacious and energetic. Expect to see a lot more of them in the future.

Swan Lake runs through May 26.

MOVIE REVIEW

# Darkness lurks in Hemingway's island paradise

## The reclusive Hemingway and revolutionary Cuba are both rendered vividly in a visceral eyewitness account

**By Josh Cowls**

"Never meet your heroes" is the cardinal rule broken by reporter Ed Myers, the protagonist of *Papa: Hemingway in Cuba*, a largely true-to-life depiction of Ernest Hemingway's sunset years. It's 1957, and in the sepia-toned newsroom of the *Miami Globe*, Myers sweats over the latest draft of a fan letter to esteemed writer and recent Nobel laureate Ernest Hemingway. A short time later, Myers receives an unexpected phone call from Hemingway himself, warmly inviting him on a trip to Cuba, the writer's adopted home.

When we first meet Hemingway in person, looming into view at the helm of his fishing boat, he seems to have successfully carved out a slice of reclusive island paradise. Soon, Myers is accompanying Hemingway and his wife, Mary, on pristine beaches and swimming in their opulent mansion. Myers is swiftly adopted into the family fold, with the suitably-nicknamed Papa playing the paternal role that Myers, abandoned as a child, all too clearly craves.

Yet if this unique personal and professional mentorship feels too good to be true for Myers, that's because it is. Hemingway, it soon becomes clear, is battling demons inside and out. Fearing that his writing talent is fading, and with the strong stuff never at more than arm's length, Hemingway quickly becomes fitful, erratic, and prone to outbursts, particularly aimed at his wife Mary, who slots uncomfortably into the role of antagonist. Meanwhile, the slow but inevitable slide into revolution continues outside, with spinning newspapers serving to provide context around Castro's uprising. Myers faces inner conflict too, though his struggle over divided loyalties — between the Hemingways in Cuba and the love life he left back home — is the film's least inspiring sub-plot.

It is in this complex interplay of personal, professional, and political drama that the film falls a little short. The emerging revolution provides little more than an out-of-focus backdrop, with the exception of a thrilling scene in which Myers and Hemingway find themselves on the front line of an early gun battle. ("War is a lousy way to settle politics," laments a beleaguered Hemingway in a bar afterwards.) Aside from the generally darkening mood (and Cuba's tropical storms provide plenty of pathetic fallacy), these different strands don't mesh very effectively until the end.

The film's ambition in trying to tell several stories at once can't be faulted, but we are left wanting a little more of each. Yet, as with the recent profile of the Hollywood screenwriter Dalton Trumbo, biopics are necessarily constrained by the nature of their subject. Thus, the ageing Hemingway's own volatility results in a narrative which is uneven in its pacing and uneasy in its tone, but the film probably all the more visceral and compelling for it. Even the slightly overwrought presence of Myers as protagonist — including a voice-over narrative that tends towards the saccharine — is excusable, since 'Ed Myers' is the pseudonym of Denne Bart Petitclerc, who wrote the script based directly on his own experiences.

This first-hand experience is noteworthy not just for the authenticity it brings to the film's plot and its evocative rendering of Casa Hemingway. Petitclerc's direct retelling enabled the project to be classed by the U.S. government as a documentary, which apparently makes it the first Hollywood feature film shot in Cuba in 45 years. It was worth the wait: the backdrops, whether buildings or beaches, are invariably vibrant.

Taken together, these production values grant the audience privileged access: both to an embargoed island, thanks to the on-location shooting, and to a great author's faltering mind, thanks to Petitclerc's sharp recollection. Due to the clunky clumping together of different storylines, the film's whole is no greater than the sum of its parts — but those individual parts are weighty enough to make *Papa* a worthy watch.

★★★★☆

***Papa: Hemingway in Cuba***

**Directed by Bob Yari**

**Starring Giovanni Ribisi, Adrian Sparks, Joely Richardson, Minka Kelly**

**Rated R**

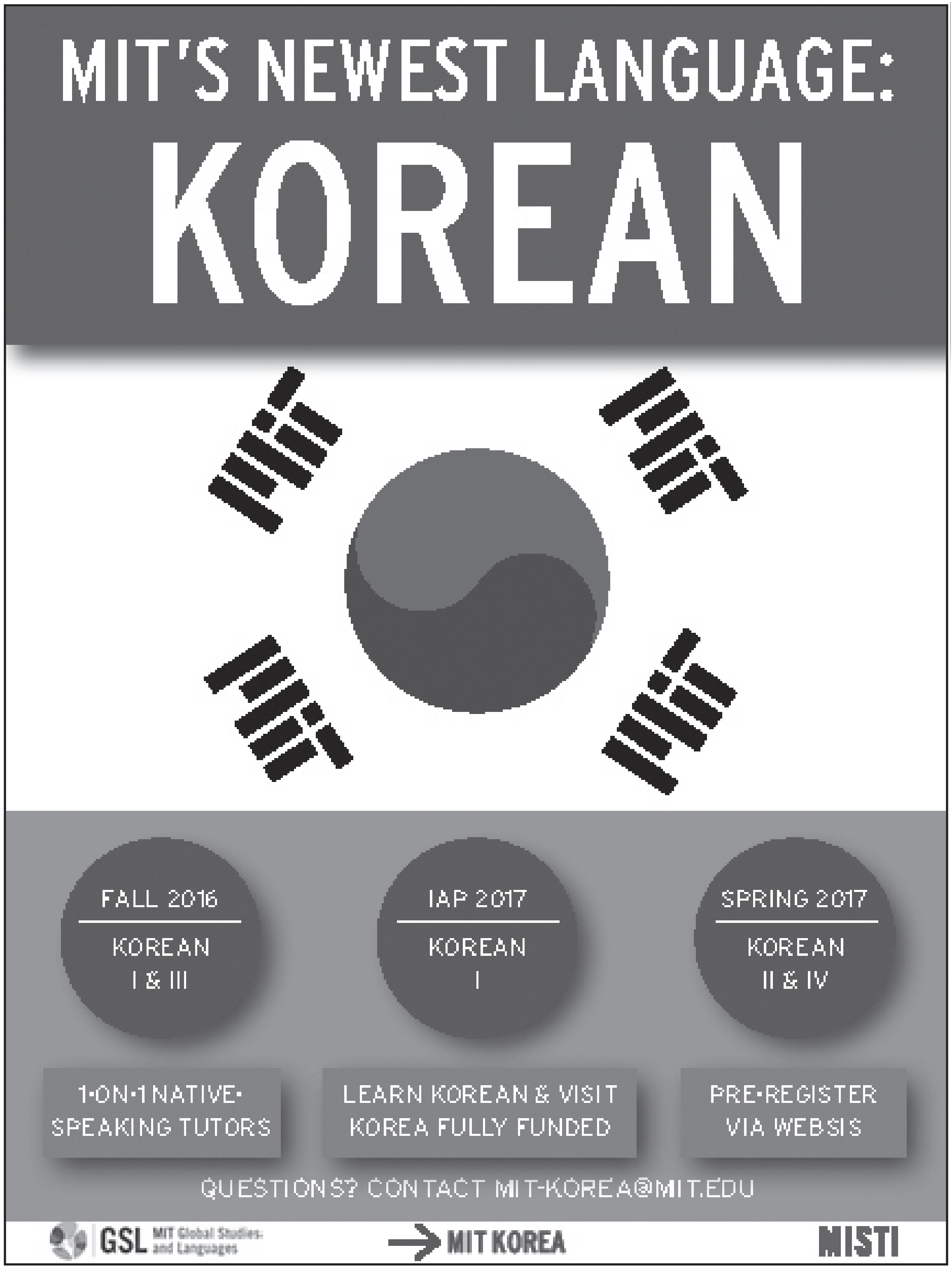
**Now Playing**

CUSTOM PRINTED & EMBROIDERED
T-SHIRTS
SWEATSHIRTS - POLOS - HATS & MORE!
since 1989

- Great Pricing & Free Delivery
*Cambridge & Boston Area
- Traditional Screenprinting
- Full Color Digital Printing
- Embroidery

ph - 617-625-3335
email - info@qrsts.com
www.qrsts.com
Somerville, MA

QRST's
Printing - Embroidery and More...
part of R.A.W. (Rinnigade Art Works)


MIT'S NEWEST LANGUAGE:
KOREAN

FALL 2016
KOREAN
I & III

IAP 2017
KOREAN
I

SPRING 2017
KOREAN
II & IV

1-ON-1 NATIVE-SPEAKING TUTORS
LEARN KOREAN & VISIT KOREA FULLY FUNDED
PRE-REGISTER VIA WEBSIS

QUESTIONS? CONTACT MIT-KOREA@MIT.EDU

GSL MIT Global Studies and Languages
MIT KOREA
MISTI

## Affiliated links FSILGs and LGBT groups at MIT

"We're about claiming and creating spaces," Aquil Fannis '16 said in an interview about the new group, Affiliated.

Born out of the efforts of Fannis, Hermoon Worku '17, and Michael Holachek '17, Affiliated seeks to fill the void at the intersection of FSILGs and the LGBT groups at MIT with the objectives of advocacy and community-building.

Even though its kickoff event was April 25, less than two weeks ago, efforts for Affiliated began a year ago as two distinct efforts.

After a broad show of interest last April, Holachek spent the summer refining the idea of creating a student group for queer-identified students in greek life.

Seperately, Fannis had been exploring social justice issues in the greek community, crystallizing at the yearly Provincetown retreat in September under the name "greek rainbow." Shortly after, Abigail Francis, the director of the Rainbow Lounge, connected the two ideas together and helped arrange a meeting.

Although the ideas of promoting inclusivity and of social justice are distinct, both groups met and quickly realized that all were interested in both issues. The name temporarily evolved to be "Lambda, Gamma, Beta, Tau" but was quickly rejected since it was "too greek:" it did not include the Independent Living Groups. The group finally settled on "Affiliated," seeking to be as open as possible. By November, the group was on the path to ASA recognition, only finishing a week before kickoff. Holachek described the year-long process, consisting of "useless meetings," long delays, and poor communication as "extremely frustrating."

While the struggle with the ASA clearly annoyed both Fannis and Holachek, both were thrilled about the support they received from students through the Panhellenic Association, the Interfraternity Council, the Living Group Council, and individual houses and chapters, as well as from administrators through the FSILG office and from LGBT@MIT. This support is key in their efforts to create an environment that reflects both their affiliated and queer identities.

"One of our core missions is helping students wanting to create a safe space in their houses being able to do so," Fannis said.

Another issue that has occupied them is that of recruitment, which is necessary to make their efforts sustainable, Fannis said. Both expressed hope that the presence of Affiliated will encourage otherwise uninterested undergraduates to participate in rush. They also wonder if the presence of Affiliated will end up being a deciding factor.

In order for those dreams to be realized, however, they are working hard to reach out to every fraternity, sorority, and independent living group.

"We can't be that group of three FSILG brothers hanging out, we need to be well-connected" Holachek said.

In the heavily-gendered environment of fraternities and sororities, the acceptance of transgender and genderqueer individuals is a hard question.

At the kickoff, Panhel president Caitlyn Mason '17 clarified that Panhel accepts any trans or genderqueer individuals, though a National Panhellenic Association policy forces sororities to be women-only. Official language, with constantly gendered terms, feels alienating to non-binary individuals, according to Haley Cope '18.

The IFC does not have any overarching policy, but Fannis clarified that Sigma Phi Epsilon welcomes anyone willing to be called "brother."

*—Olivia Brode-Roger*

# One declared EAPS

## *Courses 24-2, 2-OE enroll 1 each*

**Majors,** from Page 1

flexible-path Course 10 alternative, also lacked a freshman as counting drew to a close.

Next fall, a few then-sophomores will find themselves the sole representatives of their class pursuing a degree in their respective majors. So far, Course 12 (Earth, Atmospheric, and Planetary Sciences), Course 24-2 (Linguistics and Philosophy), and Course 2-OE (Mechanical and Ocean Engineering) are set to welcome only a single member of the current freshman class.

Overall, 70.2 percent of the Class of 2019 enrolled in the School of Engineering, 19.9 percent in the School of Science, 2.2 percent in the Sloan School of Management, 1 percent in the School of Humanities, Arts, and Social Sciences, 0.6 percent in the School of Architecture and Planning. A final 6.1 percent have yet to declare.

THE MIT GILBERT & SULLIVAN PLAYERS PRESENT
PATIENCE
A MUSICAL COMEDY
this really obscure play, you've probably never heard of it.
APRIL 29 — MAY 7
Sala de Puerto Rico Stage
MIT STRATTON STUDENT CENTER 2ND FLOOR
gsp.mit.edu/reservations

# King of Hearts

*DANIEL MIRNY—THE TECH*

**Nicholas G. Charchut ’19** participates in Alpha Phi’s annual King of Hearts male beauty pageant last Saturday in Walker Memorial. At the end of the night Charchut was crowned this year’s King of Hearts.

*DANIEL MIRNY—THE TECH*

**Paul W. Kalebu ’17** participates in Alpha Phi’s annual King of Hearts male beauty pageant last Saturday in Walker Memorial.

*DANIEL MIRNY—THE TECH*

**Joshua J. Graves ‘19** participates in Alpha Phi’s annual King of Hearts male beauty pageant last Saturday in Walker Memorial.

*DANIEL MIRNY—THE TECH*

**Rachel I. Weinberg ’16 walks Aaron M. Okello ’16 on the stage** during this year’s King of Hearts male beauty pageant hosted by Alpha Phi in Walker Memorial.

*DANIEL MIRNY—THE TECH*

**Steven A. Gerasimoff ’17 gets walked through the stage by Natasha D. Batten ’19** during this year’s King of Hearts male beauty pageant.

*DANIEL MIRNY—THE TECH*

**Juan D. Fajardo ’18 sings and plays guitar** during this year’s King of Hearts male beauty pageant.

LENNY MARTINEZ–THE TECH

**From left to right, Jyotishka Biswas '16 and Edwin H. Zhang '16 sing during the MIT-Wellesley Toons' spring concert** "Toons has a Deep Thought" last Friday in 10-250.

VIVIAN HU—THE TECH

**Students sit on the grass on Kresge Lawn** as they enjoy performances last Thursday at MIT I Messed Up.

### Solution to May I Help

*from page 14*

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| P | T | A | ■ | ■ | C | U | T | S | ■ | O | A | S | E | S |
| R | U | T | S | ■ | A | T | O | P | ■ | V | I | T | A | L |
| I | N | T | O | ■ | F | A | D | E | ■ | E | L | A | T | E |
| M | A | I | D | O | F | H | O | N | O | R | ■ | R | E | D |
| E | S | C | A | P | E | ■ | ■ | T | A | T | T | E | R | S |
| ■ | ■ | ■ | ■ | S | I | P | S | ■ | T | I | E | ■ | ■ | ■ |
| A | L | S | O | ■ | N | A | T | O | ■ | M | A | P | L | E |
| M | A | I | N | T | E | N | A | N | C | E | C | R | E | W |
| A | G | R | E | E | ■ | S | I | L | L | ■ | H | Y | D | E |
| ■ | ■ | ■ | P | A | L | ■ | D | Y | E | D | ■ | ■ | ■ | ■ |
| S | P | A | M | M | E | D | ■ | ■ | A | I | S | L | E | S |
| T | A | R | ■ | M | A | I | L | I | N | G | L | I | S | T |
| A | L | O | H | A | ■ | N | I | C | E | ■ | I | T | S | Y |
| R | E | M | I | T | ■ | E | V | E | S | ■ | M | E | A | L |
| T | R | A | D | E | ■ | R | E | S | T | ■ | ■ | R | Y | E |

### Solution to Residence

*from page 15*

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ■ | D | E | S | ■ | C | H | E | F | ■ | A | P | L | U | S |
| A | R | M | Y | ■ | R | O | L | E | ■ | C | R | A | S | H |
| B | E | A | N | ■ | E | A | S | E | ■ | T | O | R | C | H |
| R | A | N | C | H | D | R | E | S | S | I | N | G | ■ | ■ |
| A | M | A | ■ | A | I | D | ■ | ■ | A | N | G | E | L | S |
| D | E | T | E | S | T | ■ | S | M | U | G | ■ | S | E | A |
| E | R | E | C | T | ■ | T | O | A | D | ■ | A | T | O | P |
| ■ | ■ | ■ | H | O | M | E | F | R | I | E | S | ■ | ■ | ■ |
| W | A | C | O | ■ | E | R | A | S | ■ | A | I | S | L | E |
| E | R | R | ■ | R | A | M | S | ■ | C | R | A | N | E | S |
| B | E | A | T | E | N | ■ | ■ | P | O | T | ■ | E | S | T |
| ■ | ■ | C | O | T | T | A | G | E | C | H | E | E | S | E |
| A | N | K | L | E | ■ | N | O | N | O | ■ | T | R | E | E |
| R | O | L | L | S | ■ | T | A | C | O | ■ | T | E | E | M |
| C | R | E | S | T | ■ | E | D | E | N | ■ | E | D | S | ■ |

### Solution to Fall

*from page 14*

| | | | | | |
|---|---|---|---|---|---|
| 4 | 6 | 1 | 2 | 3 | 5 |
| 2 | 4 | 5 | 6 | 1 | 3 |
| 1 | 3 | 4 | 5 | 6 | 2 |
| 6 | 2 | 3 | 4 | 5 | 1 |
| 5 | 1 | 2 | 3 | 4 | 6 |
| 3 | 5 | 6 | 1 | 2 | 4 |

### Solution to Winter

*from page 14*

| | | | | | |
|---|---|---|---|---|---|
| 5 | 1 | 3 | 4 | 6 | 2 |
| 6 | 2 | 4 | 5 | 1 | 3 |
| 3 | 5 | 1 | 2 | 4 | 6 |
| 4 | 6 | 2 | 3 | 5 | 1 |
| 2 | 4 | 6 | 1 | 3 | 5 |
| 1 | 3 | 5 | 6 | 2 | 4 |

### Solution to Summer

*from page 14*

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 1 | 6 | 2 | 5 | 7 | 4 | 3 | 8 | 9 |
| 4 | 7 | 3 | 8 | 6 | 9 | 2 | 1 | 5 |
| 8 | 9 | 5 | 1 | 2 | 3 | 4 | 6 | 7 |
| 5 | 4 | 9 | 3 | 8 | 2 | 1 | 7 | 6 |
| 6 | 8 | 1 | 9 | 4 | 7 | 5 | 2 | 3 |
| 3 | 2 | 7 | 6 | 1 | 5 | 9 | 4 | 8 |
| 9 | 1 | 6 | 2 | 3 | 8 | 7 | 5 | 4 |
| 7 | 3 | 8 | 4 | 5 | 1 | 6 | 9 | 2 |
| 2 | 5 | 4 | 7 | 9 | 6 | 8 | 3 | 1 |

### Solution to Spring

*rom page 14*

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 6 | 1 | 9 | 5 | 7 | 3 | 4 | 8 | 2 |
| 4 | 2 | 7 | 1 | 9 | 8 | 6 | 3 | 5 |
| 3 | 5 | 8 | 6 | 2 | 4 | 7 | 1 | 9 |
| 1 | 6 | 3 | 8 | 5 | 2 | 9 | 4 | 7 |
| 9 | 8 | 5 | 7 | 4 | 1 | 2 | 6 | 3 |
| 7 | 4 | 2 | 3 | 6 | 9 | 1 | 5 | 8 |
| 8 | 3 | 6 | 9 | 1 | 7 | 5 | 2 | 4 |
| 2 | 7 | 1 | 4 | 3 | 5 | 8 | 9 | 6 |
| 5 | 9 | 4 | 2 | 8 | 6 | 3 | 7 | 1 |

Attention continuing students:

CI-H
Communication-Intensive HASS

CI-HW
Communication-Intensive HASS Writing

If you plan to take a subject designated CI-H or CI-HW this fall, you must select it in pre-registration on WebSIS by **Monday, June 13** in order to have the chance to be scheduled into it.

For more information, visit enrollmenttools.mit.edu

MIT ENDICOTT HOUSE
CONFERENCES & SPECIAL EVENTS

Summer Outings

- 25 Acres of Grounds
- Outdoor Team Building Course
- 12 Miles from Campus
- Internal SAP Transfer
- Transportation Available
- Special Student Packages

*Reserve your retreat today!*
617-715-4900 or endicott-sales@mit.edu

Owned & Operated by the Massachusetts Institute of Technology

mitendicotthouse.org

***Fully accredited Competitive Counter-Intelligence Course 5 days, $1,450. www.worldinstitute.org, 702-722-7779

DONATE SPERM
EARN UP TO
$1,500/Month
BE A HERO
SPERMBANK.COM
APPLY ONLINE

MIT Karaoke Club Presents:

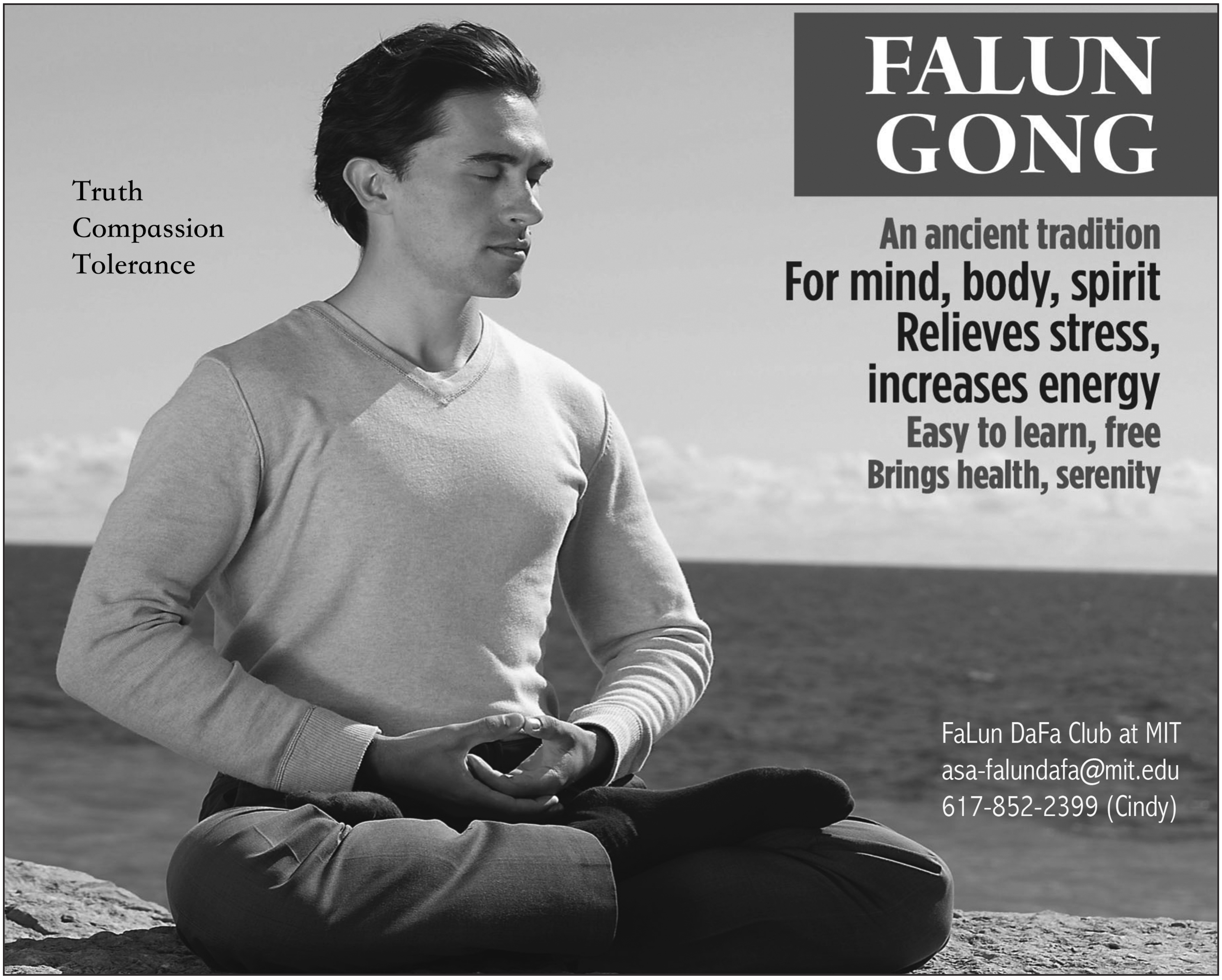
-FINALE-

FT: Jiacheng Feng

May 13th 6PM
Room 4-149

Dinner will be provided.
Become Legendary.

Jiacheng Feng is a Senior at MIT. Unbeknownst to most, he also believes he is a legendary Karaoke singer at heart. Rocking the Shure SM58 Microphone, he so far manages to woo everyone he sings to, other than the prestigious MIT acapella groups. He spends his free time thinking about how not to get stumped.


FALUN
GONG
An ancient tradition
For mind, body, spirit
Relieves stress,
increases energy
Easy to learn, free
Brings health, serenity
Truth
Compassion
Tolerance

FaLun DaFa Club at MIT
asa-falundafa@mit.edu
617-852-2399 (Cindy)

## Summer

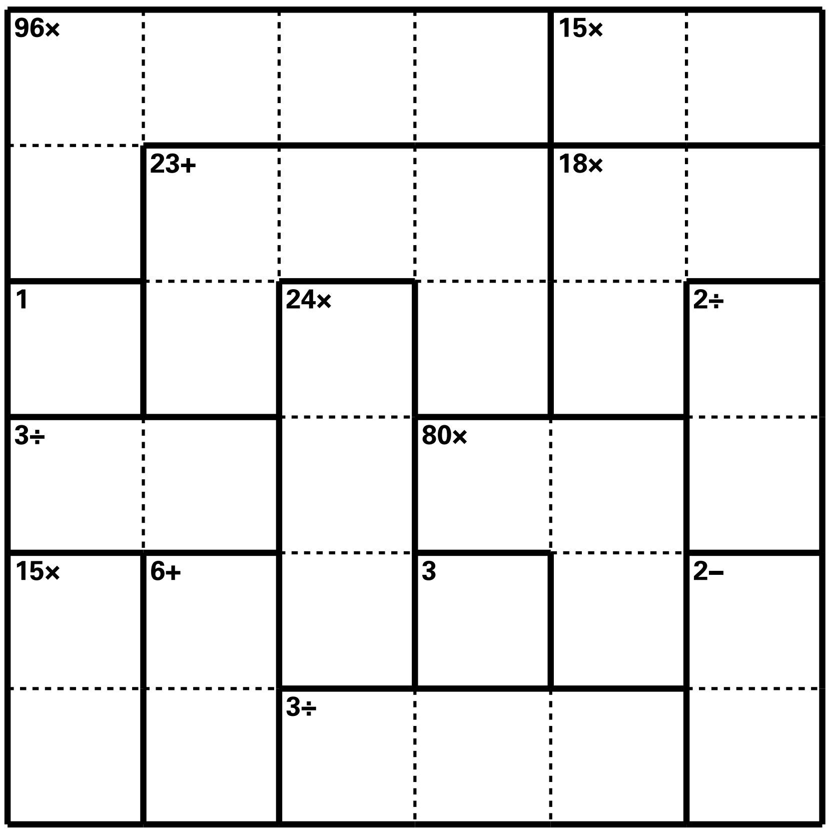
Solution, page 12

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | 2 | 5 | 7 | | | 8 | 9 |
| | | 3 | | | | | 1 | |
| 8 | 9 | | | | | 4 | 6 | |
| | | | 3 | 8 | | 1 | | |
| | 8 | | | | | | 2 | |
| | | 7 | | 1 | 5 | | | |
| | 1 | 6 | | | | | 5 | 4 |
| | 3 | | | | | 6 | | |
| 2 | 5 | | | 9 | 6 | 8 | | |

Instructions: Fill in the grid so that each column, row, and 3 by 3 grid contains exactly one of each of the digits 1 through 9.

## Fall

Solution, page 12



Instructions: Fill in the grid so that each column and row contains exactly one of each of the numbers 1–6. Follow the mathematical operations for each box.

## Spring

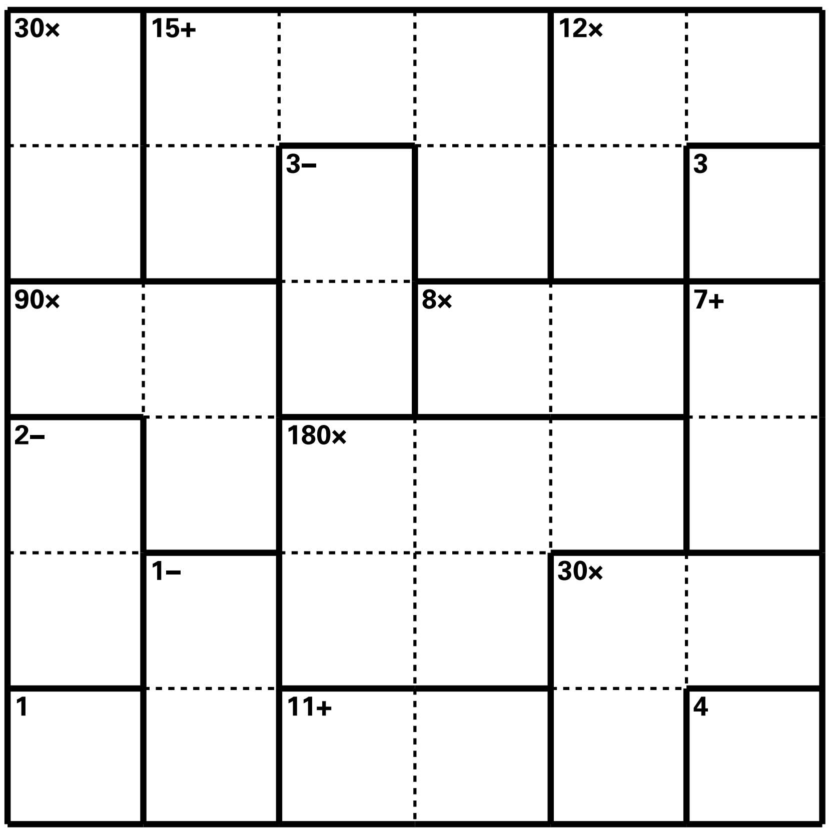
Solution, page 12

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 6 | 1 | | | | 3 | | | |
| | | | | 9 | | | 3 | |
| 3 | 5 | | | | 4 | 7 | 1 | |
| 1 | | 3 | | | | | 4 | 7 |
| | 8 | | | | | | 6 | |
| 7 | 4 | | | | | 1 | | 8 |
| | 3 | 6 | 9 | | | | 2 | 4 |
| | 7 | | | 3 | | | | |
| | | | 2 | | | | 7 | 1 |

Instructions: Fill in the grid so that each column, row, and 3 by 3 grid contains exactly one of each of the digits 1 through 9.

## Winter

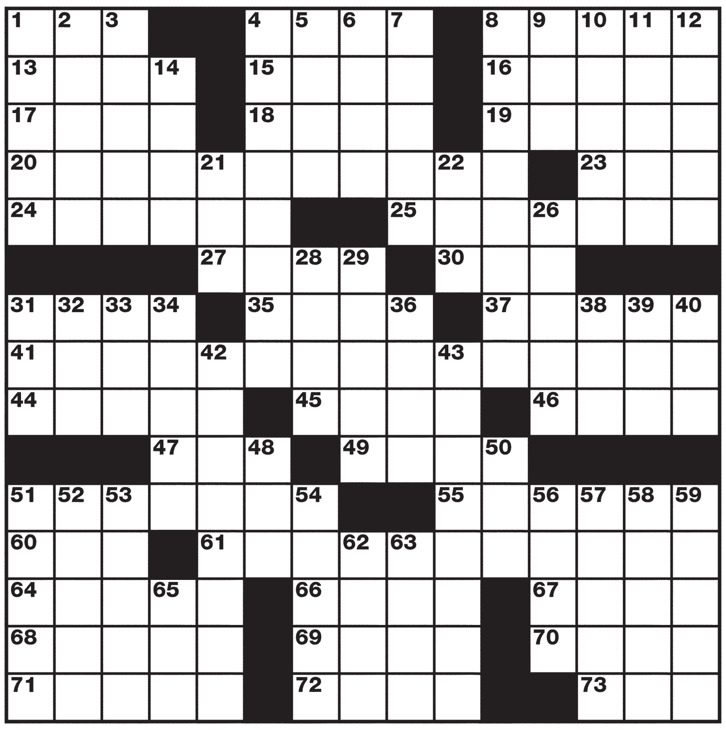
Solution, page 12



Instructions: Fill in the grid so that each column and row contains exactly one of each of the numbers 1–6. Follow the mathematical operations for each box.

## May I Help by Gail Grabowski

Solution, page 12



**ACROSS**

1 High-school support org.
4 Uses scissors
8 Desert areas with water
13 Boring routines
15 On the roof of
16 All-important
17 Turn __ (become)
18 Lose brightness
19 Make happy
20 Bride's attendant
23 Color of Santa's suit
24 Make a getaway
25 Becomes ragged
27 Drinks slowly
30 Office neckwear
31 In addition
35 Western Hemisphere alliance: Abbr.
37 Tree source for syrup
41 Group that handles a building's upkeep
44 See eye to eye
45 Window ledge
46 Jekyll's alter ego
47 Buddy
49 Changed the color of
51 Sent junk email to
55 Theater walkways
60 Roofing goo
61 Roster that stores send ads to
64 Hawaii hello
66 Pleasant
67 __-bitsy
68 Send payment
69 Nights before holidays
70 Breakfast or dinner
71 Make a swap
72 Take a breather
73 Sandwich bread

**DOWN**

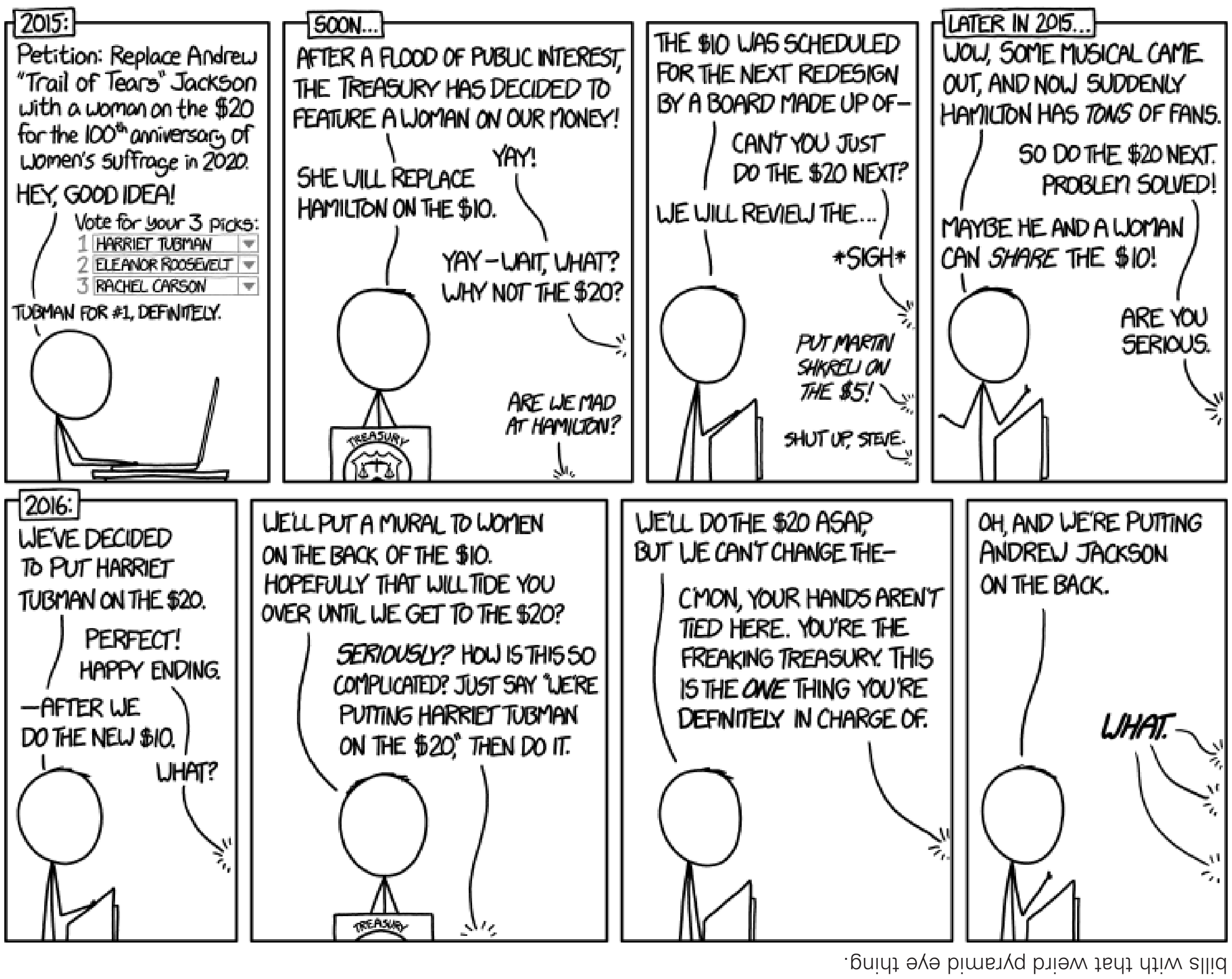
1 __ minister (British leader)
2 Albacore and yellowfin
3 Home's storage area
4 Stimulant in coffee
5 Salt Lake City's state
6 Chore list heading
7 Paid cash
8 Basketball tiebreaker period
9 Feel unwell
10 Look without blinking
11 Restaurant patron
12 Snow vehicles
14 Club __ (bar mixer)
21 Photo __ (publicity events)
22 Grain in Cheerios
26 Educate
28 Skillets and woks
29 Prim and proper
31 Doctors' org.
32 Fall behind
33 Dear __ or Madam
34 Hour after noon
36 Merely
38 Be a snoop
39 Was in first place
40 Lamb's mother
42 Dodger, to another Dodger
43 Most spotless
48 Country meadow
50 Use a shovel
51 Begin
52 Not as brightly colored
53 Scent
54 Informal restaurant
56 Thin
57 Soda bottle size
58 Opinion piece
59 In __ (fashionable)
62 Not prerecorded
63 Puts frosting on
65 Stayed out of sight

xkcd

*A WEBCOMIC OF ROMANCE, SARCASM, MATH, AND LANGUAGE*

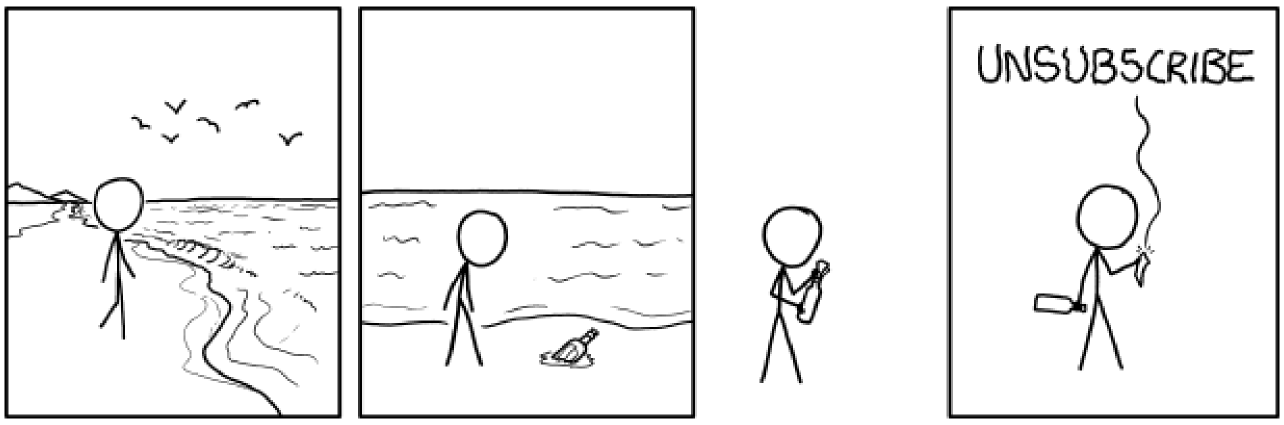
by Randall Munroe

## [1672] Women on 20s


2015:
Petition: Replace Andrew "Trail of Tears" Jackson with a woman on the $20 for the 100th anniversary of women's suffrage in 2020.
HEY, GOOD IDEA!
Vote for your 3 picks:
1 HARRIET TUBMAN
2 ELEANOR ROOSEVELT
3 RACHEL CARSON
TUBMAN FOR #1, DEFINITELY.
SOON...
AFTER A FLOOD OF PUBLIC INTEREST, THE TREASURY HAS DECIDED TO FEATURE A WOMAN ON OUR MONEY!
YAY!
SHE WILL REPLACE HAMILTON ON THE $10.
YAY – WAIT, WHAT? WHY NOT THE $20?
ARE WE MAD AT HAMILTON?
TREASURY
THE $10 WAS SCHEDULED FOR THE NEXT REDESIGN BY A BOARD MADE UP OF–
CAN'T YOU JUST DO THE $20 NEXT?
WE WILL REVIEW THE...
*SIGH*
PUT MARTIN SHKRELI ON THE $5!
SHUT UP, STEVE.
LATER IN 2015...
WOW, SOME MUSICAL CAME OUT, AND NOW SUDDENLY HAMILTON HAS TONS OF FANS.
SO DO THE $20 NEXT. PROBLEM SOLVED!
MAYBE HE AND A WOMAN CAN SHARE THE $10!
ARE YOU SERIOUS.
2016:
WE'VE DECIDED TO PUT HARRIET TUBMAN ON THE $20.
PERFECT! HAPPY ENDING.
—AFTER WE DO THE NEW $10.
WHAT?
WE'LL PUT A MURAL TO WOMEN ON THE BACK OF THE $10. HOPEFULLY THAT WILL TIDE YOU OVER UNTIL WE GET TO THE $20?
SERIOUSLY? HOW IS THIS SO COMPLICATED? JUST SAY "WE'RE PUTTING HARRIET TUBMAN ON THE $20," THEN DO IT.
TREASURY
WE'LL DO THE $20 ASAP, BUT WE CAN'T CHANGE THE–
C'MON, YOUR HANDS AREN'T TIED HERE. YOU'RE THE FREAKING TREASURY. THIS IS THE ONE THING YOU'RE DEFINITELY IN CHARGE OF.
OH, AND WE'RE PUTTING ANDREW JACKSON ON THE BACK.
WHAT.

I get that there are security reasons for the schedule, but this is like the ONE problem we have where the right answer is both easy and straightforward. If we can't figure it out, maybe we should just give up and just replace all the portraits on the bills with that weird pyramid eye thing.

## [1675] Message in a Bottle


UNSUBSCRIBE

I tried to send a message back, but I accidentally hit 'reply all' and now the ocean is clogged with message bottles.

---

## Residence Menu by Sally R. Stein

Solution, page 12

**ACROSS**
1 __ Moines, IA
4 Gourmet cook
8 Perfect school grade
13 West Point team
14 Performer's part
15 Collision
16 Lima or garbanzo
17 Make simpler
18 Statue of Liberty's light
19 "Residence" salad topping
22 Physicians' org.
23 Assist
24 Halo wearers
27 Loathe
29 Much too confident
31 Caribbean, for instance
32 Build, as a building
33 Frog cousin
34 On the summit of
35 "Residence" breakfast potatoes
38 Texas city
41 Historical periods
42 Path between seat rows
46 Make a mistake
47 Lambs' fathers
48 Construction site machines
49 Defeated
51 Stew holder
52 DC winter clock setting
53 "Residence" dairy food
57 Joint near a foot
59 Forbidden thing
60 Mahogany or maple
61 Bagels or croissants
62 Crunchy Mexican food
63 Abound (with)
64 Top of a wave
65 Adam and Eve home
66 Newspaper VIPs

**DOWN**
1 Idealistic person
2 Flow (from)
3 In __ (well coordinated)
4 "Buy now, pay later" system
5 Secret stash
6 Otherwise
7 Service charges
8 Performing a 14 Across
9 Fork tine
10 Most massive
11 Rival of UCLA
12 "Be quiet!"
13 Chafe
20 Is compelled
21 __ Arabia (Mecca's country)
25 Zodiac roarer
26 Drain, as strength
28 Tunnel's sound effect
29 Love seats' relatives
30 Scratches up
33 Semester
34 Korea's continent
36 Intended
37 Where astronauts return
38 Spider creation
39 "__ we there yet?"
40 Rice Krispies sound
43 Looked scornful
44 Renters
45 High regard
47 Makeup exam
48 Caterpillar's casing
50 Turnpike charges
51 British coins
54 Poker hand starter
55 Egg on
56 Suffix for kitchen
57 Curved line
58 Neither fish __ fowl

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ■ | 1 | 2 | 3 | ■ | 4 | 5 | 6 | 7 | ■ | 8 | 9 | 10 | 11 | 12 |
| 13 | | | | ■ | 14 | | | | ■ | 15 | | | | |
| 16 | | | | ■ | 17 | | | | ■ | 18 | | | | |
| 19 | | | | 20 | | | | | 21 | | | | ■ | ■ |
| 22 | | | ■ | 23 | | | ■ | ■ | 24 | | | | 25 | 26 |
| 27 | | | 28 | | | ■ | 29 | 30 | | | ■ | 31 | | |
| 32 | | | | | ■ | 33 | | | | ■ | 34 | | | |
| ■ | ■ | ■ | 35 | | 36 | | | | | 37 | | ■ | ■ | ■ |
| 38 | 39 | 40 | | ■ | 41 | | | | ■ | 42 | | 43 | 44 | 45 |
| 46 | | | ■ | 47 | | | | ■ | 48 | | | | | |
| 49 | | | 50 | | | ■ | ■ | 51 | | | ■ | 52 | | |
| ■ | ■ | 53 | | | | 54 | 55 | | | | 56 | | | |
| 57 | 58 | | | | ■ | 59 | | | | ■ | 60 | | | |
| 61 | | | | | ■ | 62 | | | | ■ | 63 | | | |
| 64 | | | | | ■ | 65 | | | | ■ | 66 | | | ■ |

RUNE ISSUE 37
MIT JOURNAL OF ARTS AND LETTERS
2016 Distribution
Memorial Lobby 9am-5pm
May 11th and 12th

## MIT wins Putnam Competition for third year in a row

For the third year in a row, MIT took first place in the 2015 William Lowell Putnam Mathematical Competition, widely viewed as one of the most prestigious college math competitions.

The winning team consisted of Mark Sellke ’17, Bobby Shen ’17, and David Yang ’17, who were chosen ahead of time to represent MIT. The teams from Carnegie Mellon, Princeton, Stanford, and Harvard all trailed MIT, ranking second, third, fourth, and fifth, respectively.

Yang and Yunkun Zhou ’19 were named Putnam Fellows for being among the top six highest-ranking individuals. Yang also was a fellow in the 2013 and 2014 competitions. Danielle Wang ’19 received the Elizabeth Lowell Putnam Prize, which is given to the top ranking female participant. Overall, MIT students performed extremely well in the 2015 Putnam, with 57 of the top 199 scorers being from the Institute. A total of 4,275 people participated in the competition.

The first place team’s university wins a monetary award of $25,000. Each member of the team receives $1,000. Putnam Fellows receive an additional windfall of $2,500. The recipient of the Elizabeth Lowell Putnam prize receives $1,000.

The Putnam consists of a six-hour exam with 12 problems, each worth 10 points. This year, the highest score was 99 out of 120 possible points, while the median score was one. Freshmen can prepare for the Putnam by taking 18.A34 (Problem Solving Seminar). Most recently, the fall 2015 class was taught by Peter Shor, a 1978 Putnam Fellow and Morss Professor of Applied Mathematics.

*—Anthony Yu*

MCMXVI
MASSACHVSETTS INSTITVTE OF TECHNOLOGY
STUDENT SUPPORT SERVICES
EXTENDED WALK-IN HOURS
MAY 2ND – MAY 13TH (10am-11:30am and 2:00pm-3:30pm)

# Grad students lobby on Hill for funding

## *Team can act as 'expert resource'*

**By Patrick Wahl**

A multidisciplinary delegation of MIT graduate students travelled to Washington, D.C. in mid-April to speak with members of Congress about the value of federal funding in scientific research efforts.

Organized by the student-run Science Policy Initiative (SPI), the trip brought 24 graduates to Capitol Hill for The Alliance for Science & Technology Research in America's Congressional Visits Day (CVD) to discuss with legislators from both sides of the aisle the effects of research and development on the districts they represent.

The group spoke with congresspeople and staff members from the offices of 32 Republicans and 29 Democrats. Topics of discussion ranged from the impact of science and technology on the national economy to specific, local issues — many of the students met with staffers from their home districts, along with the representative for MIT's district, Rep. Mike Capuano (D).

Of particular interest to the group were Republicans, who control Congress and who made strides last July by moving the 21st Century Cures Act through the House of Representatives. If passed, the bill would allocate $9 billion to the National Institutes of Health over a span of five years and establish a loan repayment program for researchers in health-related fields.

Mohamad Naija G, a delegate on this year's visit, said congressional staffs recognize that "the government's on the hook" when it comes to scientific advancement. Even if research does not directly contribute to the economy, hindering advances in fields like medicine may cost the government large sums of money in the future if programs like Medicare and Medicaid are used to pay for the treatment of potentially curable diseases.

This year, the team was also able to take into consideration President Obama's budget for the 2017 fiscal year, which saw research and development funding increase by only 4 percent from 2016, when it made up the smallest portion of the budget it had in 50 years. Naija said that the emphasis of the students' petitions was on multidisciplinary science funding, which has not yet recovered from the devastating 2013 federal budget sequestration.

In particular, many students based their conversations around a letter put forth by MIT, Harvard University, and Boston University requesting heightened funding for organizations like the National Institutes of Health, the National Science Foundation, and NASA.

While delegates in the past have focused on matters like immigration and healthcare, Scott Grindy G, who led this year's visit, made it clear that the SPI itself does not take stances on specific issues.

"Our mission is to enable students to advocate for the legislation that they care about," he said.

However, a common thread in discussions is the threat to the progress of innovation which reports like MIT's "The Future Postponed" warn budget cuts could pose. Grindy said that a recent trend toward improved communication skills among scientists and engineers is helping to counteract this threat by giving researchers a stronger voice in influential policy decisions.

Grindy is reservedly optimistic about the impact of the visits. "It's tempting to think of ourselves as Mr. Smith going to Washington and upending the establishment," he said, before explaining that policy overhaul related to contentious issues like climate change would not happen overnight, nor at the hands of a small group of people.

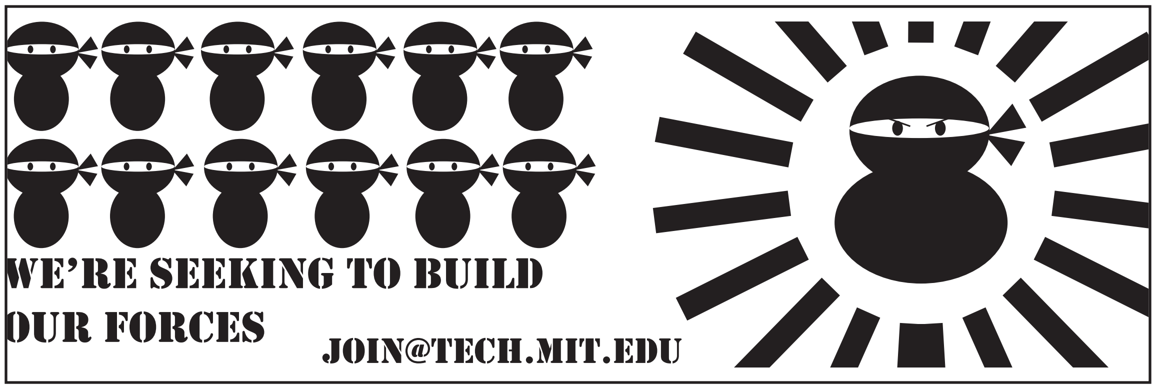
Nonetheless, he stressed that while groups like the SPI have limited capabilities compared to more powerful lobbies, they can offer a "sort of brains and hard-work ethos," acting as expert resources for congressional staffs which may not have the time to deal personally with every issue.

Naija, for example, gave specific figures correlating science funding and GDP to the staff of Massachusetts's 6th congressional district representative Seth Moulton (D) during one of his meetings.

"[Major policy changes] are things that don't happen over the course of one visit," said Grindy. "The things that can and do come out of CVD are relationships."

This is the tenth consecutive contingent sent by MIT to the annual CVD.

Muses of the Caribbean
A Capella Concert
May 8th
8PM
6-120
Be thar 'er be squar'
UA



MIT School of Science

Call for Nominations

2016 School of Science Teaching Prizes for Undergraduate and Graduate Education

The **Teaching Prize for Undergraduate Education** recognizes outstanding teaching not only in the undergraduate subjects with large enrollments (such as those that satisfy the General Institute Requirements in science), but also in upper-level science subjects in which enrollments are smaller.

For the **Teaching Prize for Graduate Education**, preference will be given to nominees who teach mainstream subjects in which fundamental principles of the relevant fields are presented. Such courses typically provide the basis for advanced education and research and prepare students for professional careers.

Nomination letters from either faculty or students are welcome. Letters should indicate the name of the nominee, course taught, and reasons for nomination. Although one strong letter is sufficient, additional letters will strengthen the nomination.

**Please submit nominations at http://science.mit.edu/teaching-prize-nomination-form.**
**Nominations are due May 27, 2016.**

For additional information please contact:
Annie Lee, School of Science, 6-131, ayl@mit.edu, 617-253-5951

# Marshall analyzes data from past softball games

## *Says that in games that come down to a single pitch, statistics are not as helpful*

**Marshall,** from Page 20

**Marshall:** The double-header against Springfield. I felt really strong that time. I had 22 strikeouts in two games. Both were tight games so I knew my team was relying on me to get the job done and it worked out!

**The Tech:** You lost in the NCAA regional finals to Tufts last year. But this year, you beat Tufts for the first time in program history. What was that like?

**Marshall:** It was a great feeling. We knew they were a very strong team. They had won the national championships for the past three years. We came out firing and were ready to go.

**The Tech:** Who is the most difficult batter that you go up against?

**Marshall:** There are so many strong batters in our conference. I will say that I tend to do better against power hitters than soft slappers.

**The Tech:** How much information in terms of batting statistics is made available to you or you personally care about?

**Marshall:** I actually do a lot of scouting personally. I look at the statistics of the teams we go up against for example batting averages. We also have data from the games we played against certain teams in the past. So for those we look at pitches they hit and the ones they did not.

**The Tech:** Is there any particular statistical metric that you think is a powerful predictor for success?

**Marshall:** Not really. Statistics are hard in that they measure success or failure over the course of a season. In the middle of a game, it often comes down to one pitch or one at-bat. So probability is a one or a zero at that moment.

**The Tech:** You are an applied math major. Do you believe in data more or have more faith in the process of scouting?

**Marshall:** Pre-game I certainly do. I look at all the statistics. But once I am on the field it all goes away. Every batter [I face] I try hard to get out.

**The Tech:** You are graduating in a couple of weeks. What are your career plans?

**Marshall:** I am going to be working at Willis Towers Watson as an actuarial assistant.

**The Tech:** What is your goal for this season?

**Marshall:** I think the ultimate goal is to make it to the Word Series which consists of the final eight teams in the NCAA tournament. I certainly think we have the potential but we really have to be on our game though.

**The Tech:** You have emerged as one of key figures of your team. In a team sport, you excel individually at a very high level. What is that like for you and what is that like for your teammates?

**Marshall:** I certainly like the pressure and the responsibility. [It is] like I got your back and I am going to pull you through this game if you need. It is also knowing that the team has my back as well and that allows me to do well. We have such a great relationship on and off the field that if I don't come through on a day, nothing is going to happen. It is just a game in the end. We all support each other that way.

**The Tech:** With the competitiveness that you have, is it sometimes hard to accept that in the end it is just a game?

**Marshall:** Some losses are going to sting. Some losses are going to hurt. But I love this game so much that I know there is always going to be another game, another opportunity.

**The Tech:** You have spoken about your battle with Type I diabetes before. You once said, "With diabetes you never get a break, you can never take a day off. It's a full time job."

"Diabetes may complicate my life but it doesn't control it." Would you like to comment on how that affects your life as a student-athlete?

**Marshall:** I have lived with that the disease for a while now. It is very much a part of my life. It makes things that much more difficult. When I step on the field, I try to not let it have any effect. In some ways being active actually helps manage the disease. On the other hand if your blood sugar is off in certain moment it can affect you physically, so I try to not let that happen.

**The Tech:** What do you like doing off the field when you are not busy with p-sets and classes?

**Marshall:** I like statistics and watching baseball. I root for the Mets. They have a lot of hard throwers. My favorite pitcher is Noah Syndergaard.

**The Tech:** You are the hard-throwing type of pitcher. Do you see yourself in that mould? In a tough spot on a 3-2 count do you back yourself to blow a fastball by the hitter?

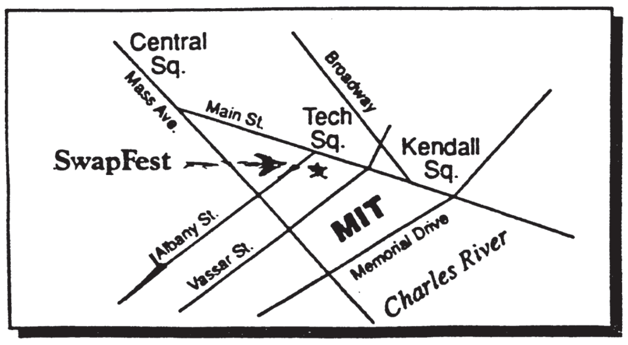
**Marshall:** Yeah. I do my best to throw as hard as I can every single pitch.

**The Tech:** Thank you for taking the time to talk to us. We wish you all the best for the rest of the season!

**Marshall:** Thanks!

*Editor's note: This interview was lightly edited for clarity and length.*

COMPUTERS - HI TECH - HAM RADIO
GIANT SWAPFEST
www.
NOW the THIRD SUN SUMMER
COMPUTERS - RADIO PARTS
SOFTWARE - HARDWARE
NEW THIS YEAR: FREE FOR MIT STUDENTS!
Sunday May 15th
- Buy Sell Swap - 9 AM to 2 PM
Albany and Main Streets, Cambridge
TAILGATE ROOM FOR OVER 400 SELLERS
Rain or Shine — Garage Available
BUYERS $6
FREE for MIT & Harvard STUDENTS with ID
SELLERS $20
per space includes 1 admission

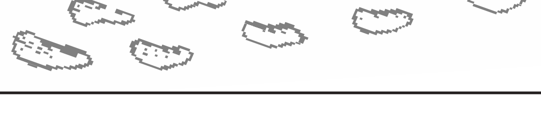


FREE! Buyers Parking
VENDORS from all of New England
Come early for BEST BARGAINS
Sponsored by: W1MX, the MIT Electronics Research Society, W1XM/R

Do you want to be like Sherlock Holmes?
*The Tech* is looking for investigative reporters.

Do you like asking tough questions?
Do you enjoy nosing around and collecting evidence?
If so, we want you on our team!

join@tech.mit.edu



# MOVING DAY AT MIT

## Saturday May 7, 2016

**Celebrating
the move to Cambridge
with our family and friends!**

### CROSSING THE CHARLES PARADE AND COMPETITION

**2–3:30 pm**

**GRAND MARSHAL OLIVER SMOOT '62**

Join the parade ✳ Cheer the competitors
Props and costumes encouraged ✳ Only at MIT!
Gather at Mass Ave and Memorial Drive

### MIND AND HAND: A PAGEANT!

**8–9:30 pm**

Be part of the pageant of the century,
the largest community gathering on campus since 1916
Pyrotechnics ✳ Multimedia soundscapes on the
Building 10 facade ✳ Student performers
Renowned dance troupe Pilobolus
**Is it mind or hand? The spirits of *Mens* and *Manus*
come alive to debate the true essence of MIT!**
Killian Court opens at 7:45 pm

### LET'S DANCE!

**9:30 pm**

Keep it moving!
Come as you are — or dressed for your favorite decade
Live performances, food and drink,
and frivolity until midnight!
Swing and All that Jazz Walker Memorial
Happy Days: Music of the 50s and 60s McDermott Court
MTV Studio at the Disco-Tech:
Music of the 70s and 80s North Court
High-Tech meets Modern Dance Club:
Music of the 90s and Today Kresge Oval
Play that Game: Retro Games for All Ages
Saxon Tennis Courts, next to Walker Memorial

**No tickets required
Details, including accessibility
mit2016.mit.edu/movingday**

MOVING DAY
May 7
MIT ✳ 2016
Celebrating a Century in Cambridge

**#MIT02139**

**Massachusetts
Institute of
Technology**

# Cycling clinches conference title

## *Cycling team also finished in first place overall this season*

COURTESY OF MIT CYCLING TEAM

**Members of the cycling team hold the trophy** after winning the Easter Collegiate Cycling Conference Championship.

**By Souparno Ghosh**
*SPORTS EDITOR*

The MIT cycling club capped off its road regular season by clinching the Eastern Collegiate Cycling Conference Championships (Easterns) held on the weekend of April 23-24 at Warwick and Turners Falls, MA. Despite having been agonizingly close on previous occasions, the encomium (top spot overall at the end of the season) had eluded the Engineers until now. What made the victory even sweeter was that the top spot was clinched in its home race.

Corey Tucker G, who finished third in the women's A category over the season summarized the team's sentiments aptly: "I've been racing here at MIT for three years, and every year we go into the final weekend of the season with the goal of walking away with the trophy, and until this year, hadn't pulled it off. The fact that it's my (and several other's) final season here at MIT made it even more special."

But even before the first race of the Easterns was run, there was the non-trivial task of finalizing the course for the championships. Lucy Archer G, who competes in the women's B category, headed the Boston Beanpot Committee that was tasked with locating, scouting, and implementing new courses for the championship.

Archer explained, "There's a lot of paperwork and people work that goes into just getting approval for the courses, let alone getting the manpower to put the race on. It's hard to find volunteers to come marshal when our race is an hour and a half away from MIT! That said, it was also amazing to be at the head of an awesome group of people who were willing to do so much work to make the race happen. I had a lot of help from many people, and that is the reason the race was so successful."

It is a long season with three different types of races: the road race, time trial, and the criterium. To seal the encomium the team needs contributions from its sizeable roster, with different racers stepping up in different races to put points on the board. Emerson Glassey G, one of two men's A category racers played his part by finishing 8th in the road race and racking up 70 points for the team.

Glassey used to race for UCSC as an undergrad but preparing for the road season in the New England winter is a whole new ball game.

"The most challenging part has been training and racing through the winter and while living in a city. In Santa Cruz the mountains were literally right outside my door and now it's 40 minutes to get to good riding roads," remarked Glassey. He went on to add, "My lobster gloves stop being effective below 20 °F and water bottles freeze even with salty drink mix added."

No doubt there were severe adversities that the team had to overcome to reach the summit. But the season had some memorable moments along the way. For example, Katy Olesnavage G won her first competitive race at Shippensburg.

Following the race, she was almost in disbelief: "It was simultaneously really awesome and a bit surreal. I spent most of the race off the front of the main group, so I was just riding by myself expecting to see other racers coming up behind me at any minute. When I finally crossed the finish line, I remember thinking to myself, 'I won!' and then immediately thinking, 'Wait, did I actually win?' I was pretty sure I did, but a part of me was wondering how that was possible. I didn't really let myself celebrate until they posted the official results."

One of the biggest contributions came from veteran racer Jennifer Wilson G, who finished second overall in the women's A category. While victory in her final season was immensely satisfying, cycling for her was not just about the competition and winning.

"I ended up second overall in the conference and am really proud and excited that I was able to race while writing and completing my thesis. The team is like family, and it would have been a shame to miss out on race weekend travel and competition with this group of people," said Wilson.

Through a combination of hard work, mental toughness, teamwork, and strategy, the MIT cycling club clinched a well-deserved championship. The national championships for the road season will be held at Marshall, NC later this month where the team will be fighting for honors, with some donning the specifically engineered Engineers' jersey for the final time.

---

PLAYER OF THE MONTH

# Softball pitcher Alexandra Marshall '16 talks pitching and importance of teamwork

## *Marshall broke the school record for strikesouts and pitched 14 complete-game shutouts this year*

**By Souparno Ghosh**
*SPORTS EDITOR*

Alexandra Marshall '16 is lights-out pitching personified. In 29 appearances (23 as starter) this year, she has an enviable 18-8 record with a miserly 1.00 earned run average (ERA) with 198 strikeouts in 154.2 innings pitched. She has 14 complete game shutouts to her credit in this season alone and holds the record for most strikeouts in program history, with 515 Ks to her name.

Despite her individual brilliance, she credits her coach for creating a program where there is great camaraderie among teammates, something she says helps get the best out of her.

For someone who has won multiple accolades as a softball pitcher, she appeared remarkably humble, replying, "There are so many good batters in our conference," when asked who she considered her strongest opponent.

Yet there is not a scintilla of hesitation when it comes to having confidence in her pitches. "I do the best I can to throw the hardest I can every time I pitch," she says.

Marshall talks about scouting opponents, reliance on data, battling type I diabetes, and reveals her favorite pitcher and the baseball team she roots for in this interview with *The Tech*.

**The Tech:** You have managed a remarkable 14 complete-game shutouts this season with an earned run average (ERA) of 1.0 and have eclipsed 500 strikeouts to become the all-time leader in strikeouts in program history. Congratulations! What makes you such a great pitcher?

**Alexandra Marshall:** It starts with the hard work and dedication [off the field]. But [in the end] it is all about the team. When we play as a team, we play the best. Our coaches have developed this program so we can play together as a team and have fun together.

**The Tech:** You were a pitcher in high school. Then in the first couple of years at MIT you both pitched and batted. Now you are a full time pitcher. How did that transition come about?

**Marshall:** It was a decision the coach and I made together. We realized that I was going to be pitching a lot this year so I wanted to focus my energy on that.

**The Tech:** How was the high school pitcher version of you different from what you are now?

**Marshall:** I think it is mental toughness. That has changed. Here I know that I have to attack hitters that have the potential to hit more homeruns.

**The Tech:** In terms of pitch execution, what are your strengths?

**Marshall:** I throw pretty hard and have a lot of movement on my pitches. I am a lefty so [my pitches are] coming from a different perspective to the batter.

**The Tech:** How many types of pitches do you throw?

**Marshall:** Let's see … fast, change, curve, screw, rise, drop … so, six!

**The Tech:** Which is your go-to pitch?

**Marshall:** The screw.

**The Tech:** You often play double-headers so you are facing the same hitter multiple times in a game and then in multiple games in a day. How do you outfox them with such consistency?

**Marshall:** It is probably a good question for the assistant coach who calls the pitches. She really tries to mix the pitches, keep the batters on their toes. That is why I have six different pitches. I can use my full arsenal.

**The Tech:** Which was your most satisfying performance this season?

**Marshall,** Page 18

Share Your View

web.mit.edu/subjectevaluation

DEADLINE:
Monday, 5/16 at 9 AM

Spring 2016 end-of-term subject evaluations